

SITE INVESTIGATION REPORT/ INTERIM REMEDIAL ACTION WORKPLAN VETERANS MEMORIAL PARK BLOCK 260, LOT 15.02 SOUTH PLAINFIELD, NEW JERSEY PMK GROUP NO. 0502014

VOLUME III

LABORATORY ANALYTICAL DATA PACKAGE

SECTION A

P3425

SECTION B

P3702

PREPARED BY:

THE PMK GROUP
PO BOX 5000
65 JACKSON DRIVE
CRANFORD, NEW JERSEY 07016

PREPARED FOR:

BOROUGH OF SOUTH PLAINFIELD 2480 PLAINFIELD AVENUE SOUTH PLAINFIELD, NEW JERSEY 07080

OCTOBER 18, 2002



DATA PACKAGE FOR VOLATILE ORGANICS SEMI-VOLATILE ORGANICS GC SEMI-VOLATILES METALS GENERAL CHEMISTRY

PROJECT NAME: Veterans Memorial Park

PMK GROUP 65 JACKSON DRIVE CRANFORD, NJ 07016 9084978900

CHEMTECH PROJECT NO. ATTENTION:

P3425 Devang Patel

CHEMTECH

COVER PAGE

ProjectID: Veterans Memorial Park

Order

P3425

CustomerName PMK Group

LAB SAMPLE NO. P3425-01

CLIENT SAMPLE NO

GC-2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

| Signature:_ | ρ, | Name: Laythoftha | Kalpeener |
|-------------|---------|------------------|-----------|
| Date: | 8/19/02 | Title: QA LOC | |

NYDOH CERTIFICATION NO.11376

NJDEP CERTIFICATION NO. 20012

QA/QC DELIVERABLES CHECKLIST

Project Number: <u>P3425</u>

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

| | 2 | | Yes | NA |
|---------|---|--------|------------|------|
| I. | Report Cover Page, Laboratory Certification and Field Sam to Lab Sample ID Cross Reference | ple | | 4144 |
| | | | | i. |
| П. | Table of Contents | | | * |
| Ш. г | Chain of Custody Documents | * * | - ✓ | |
| IV. | Methodology Summaries | | ~ | |
| V. | Laboratory Chronicle and Hold Time Checks | | ~ | |
| VI. | Non-Conformance Summary | , | ~ | , |
| VII. | Tabulated Analytical Results | | ~ | (4) |
| VIII. | Initial and Continuing Calibration Information | 2 * | ¥ | |
| IX. | Tune and Internal Standard Area Summaries (GC/MS) | | | _ |
| X. | Quality Control Summary Reports | | - 1 | |
| XI. | Surrogate Recovery Summary | | | |
| XII. | Raw Data Chromatogram, Blank, Samples and QC when applicable | | | == |
| XIII. | Subcontract Data | | | ~ |
| | De . | 811910 | | |
| | QA/QC Data Reviewer | Dat | te | |

☐ 110 Route 4Englewood, NJ 07631Phone: 201.568.7400 Fax: 201.567.3231

★ 284 Sheffield Street
 Mountainside, NJ 07092
 Tel 908:789.8900 Fax: 908.789.8922

CHEMTECH 284 SHEFFIELD STREET MOUNTAINSIDE, NJ 07092 pH. (908) 789 8900

TABLE OF CONTENTS PROJECT NUMBER: P3425NJ

| TROCEST ROMBER. 1 0-2010 | PAGE# |
|---|------------|
| CHAIN OF CUSTODY | 07 |
| METHOD SUMMARIES | 13 |
| LABORATORY CHRONICLE | 13 |
| CASE NARRATIVE / NON - CONFORMANCE SUMMARY | 16 |
| VOALITILES ORGANIC DATA | 38 |
| ANALYTICAL RESULTS SUMMARY | 39 |
| TUNNING RESULTS SUMMARY | 41 |
| METHOD BLANK RESULTS SUMMARY | 45 |
| CALIBRATION SUMMARY | 51 |
| SURROGATE COMPOUND RECOVERY RESULTS SUMMARY | 55 57 |
| MS/MD RESULTS SUMMARY INTERNAL STANDARDS | 57 60 |
| CHROMATOGRAMS | 65 |
| CHROWATOGRAWIS | . 65 |
| SEMI-VOALITILES ORGANIC DATA | 74 |
| ANALYTICAL RESULTS SUMMARY | 75 |
| TUNNING RESULTS SUMMARY | 79 . |
| METHOD BLANK RESULTS SUMMARY | 83 . |
| CALIBRATION SUMMARY | 88 |
| SURROGATE COMPOUND RECOVERY RESULTS SUMMARY | 97 |
| MS/MD RESULTS SUMMARY | 99 107 |
| INTERNAL STANDARDS CHROMATOGRAMS | 112 |
| CHROMATOGRAMS | 112 |
| SEMI-VOALITILES ORGANIC DATA | 135 |
| ANALYTICAL RESULTS SUMMARY | 136 |
| TUNNING RESULTS SUMMARY | 138 |
| METHOD BLANK RESULTS SUMMARY | 143 |
| CALIBRATION SUMMARY | 147 |
| SURROGATE COMPOUND RECOVERY RESULTS SUMMARY | 152 154 |
| MS/MD RESULTS SUMMARY INTERNAL STANDARDS | 154 157 |
| CHROMATOGRAMS | 164 |
| CHROWATOGRAWS | 104 |
| PESTICIDE/PCBS DATA | 174 |
| ANALYTICAL RESULTS SUMMARY | 175 |
| METHOD BLANK RESULTS SUMMARY | 177 |
| CALIBRATION SUMMARY | 180 |
| SURROGATE COMPOUND RECOVERY RESULTS SUMMARY | 186 |
| MS/MD RESULTS SUMMARY | 188 |
| RETENTION TIMES SUMMARY | 191 194 |
| CHROMATOGRAMS | 194 |

CHEMTECH 284 SHEFFIELD STREET MOUNTAINSIDE, NJ 07092 pH. (908) 789 8900

| GC DATA | 201 |
|---|-----|
| ANALYTICAL RESULTS SUMMARY | 202 |
| METHOD BLANK RESULTS SUMMARY | 204 |
| CALIBRATION SUMMARY | 206 |
| SURROGATE COMPOUND RECOVERY RESULTS SUMMARY | 212 |
| MS/MD RESULTS SUMMARY | 214 |
| RETENTION TIMES SUMMARY | 217 |
| CHROMATOGRAMS | 220 |
| GC DATA | 226 |
| ANALYTICAL RESULTS SUMMARY | 227 |
| METHOD BLANK RESULTS SUMMARY | 229 |
| CHROMATOGRAMS | 231 |
| METALS DATA | 243 |
| ANALYTICAL RESULTS SUMMARY | 244 |
| METHOD BLANK RESULTS SUMMARY | 246 |
| CALIBRATION SUMMARY | 253 |
| ICP ICS RESULTS SUMMARY | 259 |
| SPIKED SAMPLE RESULTS SUMMARY | 261 |
| DUPLICATE SAMPLE RESULT SUMMARY | 264 |
| LABORATORY CONTROL SAMPLE REESULTS SUMMARY | 267 |
| SERIAL DILUTION RESULTS SUMMARY | 269 |
| GENERAL CHEMISTRY DATA | 271 |
| ANALYTICAL RESULTS SUMMARY | 272 |
| QC RESULTS | 274 |
| TOTAL NUMBED OF DAGES | 282 |



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

| CHEMTECH JOB NO.: | |
|---------------------|---|
| CHEMTECH QUOTE NO.: | _ |
| CHEMITECH QUOTE NO | |

| 17 may 18 m | CLIENT INFORMATION | | | | PROJEC | T INFOR | MATIO | N E | | | | | 200 | BILL | ING IN | FORMA | TION | 加料 | 磁集網 |
|--|---------------------------------------|--------------------------|-----------------------|----------------------------|--|------------------------|----------------|----------|----------|--------------|-------------------|---------|-------|--------|---------|-------|--|----------------|-----------------|
| COMPANY: | PMK GROWP | PROJEC | T NAN | ΛE: | Vets | ans 1 | ner | novi | ٤/ ١ | larif | BILL TO |): | P | m | K | | PO #: | | |
| ADDRESS: 6 | 55 Jackson DE | PROJEC | T NO. | | 050 | 201 | 4 | | | | ADDRE | SS: | | | | | | , | |
| CITY: CR | ANFORD STATE: No ZIP: | PROJEC | T MAI | NAGE | ER: Ė | Deval | y _ | Pert | el | | CITY: STATE: ZIP: | | | | | | | | |
| ATTENTION: | Devang Patel | LOCATION | | | | |) | | | - | ATTENTION: PHONE: | | | | | | | | |
| PHONE: 908 | 492 8500 FAX: | PHONE: | | | | FAX | X: - | | | | | | | 0 4 | ANA | LYSIS | 1 | | |
| 经济经验 2000年 | ATA TURNAROUND INFORMATION | | D. | ATA | DELIVER | ABLE IN | ORM/ | TION | | | Pan | Υ, | /, | / | /, | / , | // | . / | |
| FAX:2 HARD COPY: _ EDD: * TO BE APPRO ** NORMAL TU | ☐ RESU☐ RESU☐ REGU☐ NEW .☐ CLP☐ EDD F | LTS PL LATOR JERSE | US Q Y FO Y REI | C E RMAT, ST DUCED D | NY STAT NY STAT ATE: ELIVERAB | E CATE | | | Ting | 125 | /5 | / | / | | /9 | // | | | |
| | | - | SAME | LE | SAM | PLE | S | | 10 m | 4.67 | PRES | SERVA | TIVES | | | | , Co | OMMENT | S |
| CHEMTECH SAMPLE | PROJECT | SAMPLE | TYP | | COLLE | CTION | BOTTLES | | (40 | | * | | | | 7. | | ← Spec A – HCl | ify Preserv | ratives HNO₃ |
| ID | SAMPLE IDENTIFICATION | MATRIX | COMP | GRAB | DATE | TIME | # OF B | . 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | C – H ₂ S E – ICE | 60₄ D – F – | NaOH Other |
| 1.GC | GC-2 | others | | X | 1/23/02 | 5-00P | n 1 | 4 | 不 | | | | | | | | | | |
| 2. | | | | ľ | / / | | | ' | | | | | | | | | | | |
| 3. | | - | | | | | | | | | | | | | | | | | |
| 4. | | | | | | 4 | | | | | | | | | | | | | |
| 5. | | | | 11 | | | | | | | | | | | | | | | |
| 6. | 16 | | | | | | | | | | | | | | | | | | |
| 7. | * | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | | ve= recen |
| | SAMPLE CUSTODY MUST BE DO | CUMENTE | D BE | LOW | EACH T | IME SAM | PLES (| CHANG | E POS | SESSI | ON INC | LUDING | G COU | RIER D | ELIVE | RY | Weight | // jaka | , × 40 |
| RELINQUISHED BY 1. A COLUMN RELINQUISHED BY | Patel 7/3/02 5:10 m 1. C) Man | Sarj | Jai | · | | litions of b ments: | ottles | or coole | rs at re | eceipt: | □ Co | mpliant | | Non-Co | omplian | t 🗆 - | Temp. of C | Cooler | |
| PEZINDUISHED BY | DATE/TIME: CAL RECEIVED FOR LA | AB BYO | | | - | | | 0 | | SHIPPEI | | | | | | | CHARLES OF THE PARTY OF THE PAR | Shipment C | |
| 360 | 07/83/08-5=4 3. / | | De National de | and the same | Page | | of_ | 1 | | and the same | CH | EMTEC | H: 🗆 | PICKED | UP 🗆 | OVERN | IIGHT | ☐ YES | □ NO |

Record Of Communication Login Change Form

| Order Number: | Today's Date: |
|--|--|
| P3425 | |
| Client: | Sample Date: |
| PMK Group | 07/23/02 |
| Client Contact: | Form Initiated by: |
| Devang Patel/John Gaspari | Omayra Penas |
| | Project Manager |
| | Omayra Penas |
| General Comments/Special Instructions: | |
| As per clients request the following analysis: | have been activated for Full TCLP and RCRA |
| Charac. | |
| | |
| | |
| | |
| | |

Login Changes

| Sample Number | Add Test | Delete Test | Change TAT |
|---------------|----------------------------|-------------|-------------|
| P3425-01 | Full TCLP, RCRA Charac. | | 1 week tat. |
| | | | |
| | | | |
| | | | |
| | | | |
| V | | | |

Signature Omaça Penas Date 8/19/02

SOP ID: P201-Data Review-03.doc

Ravision #: 03

QA Control Code: A2040102

Revision Date: June 6, 2002 Effective Date: June 17, 2002

QA REVIEW GENERAL DOCUMENTATION

| Project #: P3U25 | |
|--|------------|
| | Completed |
| | |
| For thorough review, the report must have the following: | |
| | |
| GENERAL: | |
| Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page) | <u>_</u> |
| Check chain-of-custody for proper relinquish/return of samples | |
| Is the chain of custody signed and complete | |
| Check internal chain-of-custody for proper relinquish/return of samples | |
| /sample extracts | |
| Collect information for each project id from server. Were all requirements followed | |
| COVER PAGE: | |
| Do numbers of samples correspond to the number of samples in the Chain of | |
| Custody and on login page | C |
| Do lab numbers and client Ids on cover page agree with the Chain of Custody | |
| * | |
| CHAIN OF CUSTODY: | * |
| Do requested analyses on Chain of Custody agree with form I results | 1- |
| Do requested analyses on Chain of Custody agree with the log-in page | |
| Were the correct method log-in for analysis according to the Analytical Request | |
| and Chain of Custody | |
| Were the samples received within hold time | |
| Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle | |
| Wanagement Laboratory Chronicle | |
| Non - Conformance / Comments: | 160 040 |
| | |
| | |
| 8 | |
| 3 | |
| 15t T 10 A D 1 C 1 | 13/10/02 |
| 1st Level QA Review Signature: Date: | 31151103 |
| 180 | . \ \ |
| 2 nd Level QA Review Signature: Carol Collins Date: | 8/19/02 |

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

| Value | | If the result is a value greater than or equal to the detection limit, report the value |
|-------|------|--|
| U | et e | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| J | | Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| В | | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| E | | Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| D | | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| P | | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| N | | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used. |

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

| В | If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL). |
|-------|--|
| U | If the analyte was analyzed for, but not detected. |
| E | The reported value is estimated because of the presence of interference |
| M | Duplicate injection precision not met. |
| N | Spiked sample recovery not within control limits. |
| S | The reported value was determined by the Method of Standard Addition (MSA). |
| W | Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance. |
| * | Duplicate analysis not within control limits. |
| + 4 | Correlation coefficient for the MSA is less than 0.995. |
| *** | Entering "S", "W " or " +" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte. |
| M | Method qualifiers "P" for ICP instrument "A" for Flame AA "PM" for ICP when Microwave Digestion is used "AM" for flame AA when Microwave Digestion is used "FM" for furnace AA when Microwave Digestion is used "CV" for Manual Cold Vapor AA "AV" for automated Cold Vapor AA "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi – Automated Spectrophotometric "C" for Manual Spectrophotometric "T" for Titrimetric "NR" for analyte not required to be analyzed |
| 2 (1) | - |

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

| CHEMTECH PROJECT NUMBER | P 3425 | MATRIX:_ | 50/L | (TC | LP) |
|---|---|--|---------|-----------|-----|
| METHOD: 8260 | | . ju | | | |
| * | | 8 | NA | <u>NO</u> | YES |
| 1. Chromatograms Labeled/Compo | ands Identified. (Field s | samples and Method Blank | (xs) | | |
| 2. GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT T ASP CLP, CLP AND NJ) | HERE ARE DIFFERE | NT CRITERIA FOR NY | | | |
| 3. GC/MS Tuning Frequency - Perfor 8000 Series | ormed every 24 hours fo | or 600 series and 12 hours | | | |
| 4. GC/MS Calibration - Initial Calibration performed with and 12 hours for 8000 series. | | | × | | |
| 5. GC/MS Calibration Requirements a. Calibration Check Compounds for | | | | | |
| b. System Performance Check Com | pounds for 8260 and CI | LP | | | |
| 8260 CALIBRATION CRITERIA | | | | | |
| SPCC Compounds Chloromethane 1,1-Dichloroethane Bromoform Chlorobenzene 1,1,2,2-Tetrachloroethane | MIN RF 0.1 0.1 0.1 0.3 0.3 | CCC Compo 1,1-Dichloro Chloroform 1,2-Dichloro Toluene Ethylbenzen Vinyl chlorio | propane | | |
| For CCC compounds Initial Calibrat For CCC compounds Continuing Ca | | | | *0 | |
| 6. Blank Contamination - If yes, list | compounds and concen | trations in each blank: | | | |
| 7. Surrogate Recoveries Meet Criteri | a | , | | | / |
| If not met, list those compounds and | their recoveries which | fall outside the acceptable | ranges. | | |
| Document Control # A3050026 | | Page 1 of 2 | | , | |

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#: 20012 : NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY(CONTINUED)

| # ** | | <u>NA</u> <u>NO</u> | YES |
|---|-------------------------|---|----------|
| 8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet | Criteria | | <u> </u> |
| If not met, list those compounds and their recoveries which | ch fall outside the acc | eptable range. | |
| PLS DE | E remus | | |
| 9. Internal Standard Area/Retention Time Shift Meet Crite Comments: | | | |
| | | | |
| 10. Analysis Holding Time Met | | | |
| If not met, list number of days exceeded for each sample: | | er en | |
| ADDITIONAL COMMENTS: | | * * | |
| | | | |
| Analyst Analyst QA REVIEW | * | 2/6/0V Date 8/1910V Date | 46 |

Document Control # A3050026

Page 2 of 2

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

| CHEMTECH PROJECT NUME | BER: P3 | 425 | MATRIX:_ | 50 | ريا | |
|--|----------------------------------|--|---|---|-------------------------------------|------|
| METHOD: 8270 | | | | | | |
| | | | | | | |
| * • | | | | <u>NA</u> | NO | YES |
| 1. Chromatograms Labeled/Com | pounds Identified | l. (Field samples ar | nd Method Blank | cs) | - | |
| 2. GC/MS Tuning Specification (NOTE THAT THERE ARE DI | | | P CLP, CLP AN | D NJ) | | _ |
| GC/MS Tuning Frequency - P for 8000 Series | erformed every 2 | 4 hours for 600 seri | ies and 12 hours | | | / |
| GC/MS Calibration - Initial Canalysis and continuing calibra for 600 series and 12 hours for | tion performed w | | | - | | |
| 5. GC/MS Calibration Requirement | ents | | | | | |
| a. Calibration Check Compound | s for 8270 and CI | _P | | | | _/ |
| b. System Performance Check C | ompounds for 82° | 70 and CLP | | | | / |
| 8270 CALIBRATION CRITE | <u>RIA</u> | | | | | |
| SPCC Compounds | MINRF | CCC Compou | | Acid I | Fraction | |
| N-nitroso-di-n-propylamine Hexachlorocyclopentadiene 2,4-Dinitrophenol 4-Nitrophenol | 0.050 0.050 0.050 0.050 | Acenaphthene 1,4-Dichlorob Hexachlorobu Diphenylamin Di-n-octyl pht Fluoranthene Benzo(a)pyren | e eenzene tradiene ne thalate | 4-Chlo 2,4-Di 2-Nitr Pheno Pentao | oro-3-meth ichlorophe ophenol | enol |
| For CCC compounds Initial Calib For CCC compounds Continuing | | | • | | N | |
| 6. Blank Contamination - If yes, l | ist compounds an | d concentrations is | ach blank: | | | |
| a. B/N Fraction | *** | | | | | |
| o. Acid Fraction | | | | | | |
| | | , | | | | |
| Document Control # A3040025 | | Page 1 c | of 2 | | 9 | |

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

| | NA | NO | YES |
|--|-------|--------|---------------|
| 7. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ran | nges. | | |
| a. B/N Fraction See Summary Jam # 2 | | | |
| b. Acid Fraction | | | |
| 8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria | | _/ | |
| If not met, list those compounds and their recoveries which fall outside the acceptable ran | nge. | | |
| a. B/N Fraction See Summary Jonn # 3 | | | |
| a. B/N Fraction See Summary John # 3 b. Acid Fraction Blankspike reported | | | - |
| 9. Internal Standard Area/Retention Time Shift Meet Criteria | | | |
| Comments: | | | |
| See Summary Jonn # 8 | | | |
| 9 | k: | | , |
| 10. Extraction Holding Time Met | | - | |
| If not met, list number of days exceeded for each sample: | | | |
| | | | |
| 11. Analysis Holding Time Met | | | |
| If not met, list number of days exceeded for each sample: | | | |
| | | | |
| | 10/- | | |
| ADDITIONAL COMMENTS: | | | The second is |
| | | ****** | |
| | | | |
| Nina | 31/07 | | _ |
| Analyst $\frac{\text{Nina}}{\text{Date}}$ | | _ | - |
| JC 8/19/2 | りン | | 2 |
| QA REVIEW Date | , | | 2 |

Document Control # A3040025

Page 2 of 2

CHEMTECH

SOP ID: CKLST-SEMI-VOA-REV DOC. CONTROL #: CKLST-SEMI-VOA-REV -1.0 REVISION #1.0 Page 1 of 2 Date: 04/28/00

PEER REVIEW CHECKLIST FOR GCMS SEMI-VOA DATA

| Fraction: WCC Project #: P342T | |
|---|-----------|
| Sample Numbers: 0 | |
| QA DATA: | |
| ITEM | Completed |
| Check instrument log for samples in batch. Highlights. Make sure correct lab numbers are listed on all data. Check Chain of Custody and Login Sheet for project specific information. Check that all manual integrations are initialed and dated. | |
| TUNES: Check that the proper tune is included and that the appropriate lab #s are listed on the tune. Check that the tune meets the correct criteria. Check that all samples were run within 12 hours for 8270 and CLP, 24 hours for 625. | |
| BLANKS: Check quant report for compounds called and quantitation. Check if any compounds need to be flagged with a J. Check that blank meets contamination criteria. Check blank nontargeted results for proper CAS #, retention time, compound name, mw, concentration against spectra. | |
| Check blank chromatograms to ensure that all peaks are accounted for. Check that all compounds not called are crossed off, initialed and dated on quantitation reports and tics. Check that spectra are included for all compounds called. | |
| CALIBRATION: Check that the proper initial and continuing calibration forms are included. Compare initial curves to continuing curve to make sure correct curves are included. Verify dates on curves. Verify that extra compound initial and continuing curves are included. Check that SPCCS and CCCS meet criteria on the initial and continuing calibrations. | |
| SURROGATES: Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge). Check that surrogate recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Check that appropriate action was taken for surrogate recoveries which did not meet QC criteria (samples are re-extracted and re-analyzed to prove matrix interference). Verify surrogates reported to the quantitation reports. | |
| SPIKES: Verify that the correct spike sample is being reported for that batch. Check that the spike recoveries are reported in the appropriate form (i.e. water, soil). Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Verify spike recoveries to quantitation reports. If any values outside of QC limits exist on MS/MSD, was Blank Spike used. | |
| Non-conformances / Comments: | |

CHEMTECH

SOP ID: CKLST-SEMI-VOA-REV DOC. CONTROL #: CKLST-SEMI-VOA-REV -1.0 REVISION # 1.0 Page 2 of 2 Date: 04/28/00

SAMPLES:

| ITEM | ž. 9 | Completed |
|--|--|---------------|
| Check that all manual integrations | s are initialed and dated. | |
| Check quant report for targeted co (be sure to take moisture and dilut | ompounds called and randomly verify quantitations into account). | on |
| Verify that the appropriate numbe | er and largest non-target peaks are called. | |
| Check to ensure that compounds ver-analyzed, and quanted from the | which exceed the linear range have been diluted e dilution. | |
| Check that reporting limits are typ | oical and if not (reason is not apparent) are footn | oted. |
| Verify reporting limits for extra co | ompounds. | |
| Check nontargeted results for prop to be flagged with B or J. | per concentration, CAS #, retention time, compo | ounds need |
| Check that spectra are included for | r all compounds called. | |
| Check chromatograms to ensure the | nat all peaks are accounted for. | |
| Check if any of the data requires a | footnote. | |
| Check that the samples were run / | extracted within their holding time. | |
| Non - Conformance / Comments: | | |
| Peer Review Signature: | Kenpa D | Date: 8/2/02 |
| ITEM I | ECHNICAL SUPERVISOR REVIEW: | Completed |
| Check for compliance with the Check the report for completence Check the information in the catheck the results for reasonable | se narrative. | |
| Fechnical Supervisor Review S chklst-semi-voa-rev1.doc | ignature: | Date: 8/19/02 |

NEW JERSEY LAB ID#:20012: NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

| CHEMTECH PROJECT NUMBER | P3425 | NJ | MATRIX: U | Vater | |
|---|--------------------|----------------------------------|---|-----------------------------|-----------|
| METHOD: 8276 | <u>—</u> n | | | * * | |
| | | | | 12 | |
| | | | * | NA NO Y | <u>ES</u> |
| 1. Chromatograms Labeled/Compo | unds Identified. (| Field samples and | Method Blanks) | | ✓_ |
| 2. GC/MS Tuning Specifications. I (NOTE THAT THERE ARE DIFF | | | CLP, CLP AND N | 11) | ✓ |
| 3. GC/MS Tuning Frequency - Perf for 8000 Series | ormed every 24 h | ours for 600 series | and 12 hours | | <u> </u> |
| 4. GC/MS Calibration - Initial Calibration analysis and continuing calibration for 600 series and 12 hours for 80 | n performed withi | | | | <u> </u> |
| 5. GC/MS Calibration Requirement | S | | | * | |
| a. Calibration Check Compounds for | or 8270 and CLP | | | | <u>/</u> |
| b. System Performance Check Com | apounds for 8270 | and CLP | * | | 1 |
| 8270 CALIBRATION CRITERIA | <u>4</u> | | . • | | |
| SPCC Compounds | MINRF | CCC Compound Base/Neutral Fra | | Acid Fraction | e e a |
| N-nitroso-di-n-propylamine | 0.050 | Acenaphthene | - | 4-Chloro-3-methylp | henol |
| Hexachlorocyclopentadiene | 0.050 | 1,4-Dichloroben | zene | 2,4-Dichlorophenol | |
| 2,4-Dinitrophenol | 0.05'0 | Hexachlorobutad | diene | 2-Nitrophenol | , |
| 4-Nitrophenol | 0.050 | Diphenylamine | | Phenol | |
| | (*) | Di-n-octyl phtha | late | Pentachlorophenol | |
| | 2 | Fluoranthene Benzo(a)pyrene | 8.5 | 2,4,6-Trichlorophen | ol · |
| | | | | its. | 45 |
| For CCC compounds Initial Calibral For CCC compounds Continuing Ca | | | | | |
| 6. Blank Contamination - If yes, list | compounds and o | concentrations in a | ach blank: | . √ | |
| | | | | | |
| a. B/N Fraction | | | | - Warre Committee Committee | |
| b. Acid Fraction | | | | | - |
| | | | * | | * ; |
| | | | | | |

Document Control # A3040025

Page 1 of 2

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

| | <u>NA</u> <u>NO</u> | YES |
|--|---|-----------|
| 7. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acc | eptable ranges. | |
| a. B/N Fraction | | |
| b. Acid Fraction | | |
| 8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria | | |
| If not met, list those compounds and their recoveries which fall outside the acc | eptable range. | |
| a. B/N Fraction See Summary page | | |
| b. Acid Fraction BLICSPIC NEPANTED. | | |
| 9. Internal Standard Area/Retention Time Shift Meet Criteria | | $\sqrt{}$ |
| Comments: | *** | |
| | | |
| 10. Extraction Holding Time Met | () () () () () () () () () () | |
| If not met, list number of days exceeded for each sample: | | |
| | | |
| 11. Analysis Holding Time Met | - | |
| If not met, list number of days exceeded for each sample: | | 1 |
| | * . | |
| ADDITIONAL COMMENTS: | 1 | |
| | | 19.07 |
| Analyst Date Oate Date | 8/19/02 | ¥ |
| X | | |

Document Control # A3040025

CHEMTECH

SOP ID: CKLST-SEMI-VOA-REV DOC. CONTROL #: CKLST-SEMI-VOA-REV -1.0 REVISION # 1.0 Page 1 of 2 Date: 04/28/00

PEER REVIEW CHECKLIST FOR GCMS SEMI-VOA DATA

| Fraction: SVOC Project #: P3425 | |
|---|-------------|
| Sample Numbers: | |
| QA DATA: | |
| ITEM | Completed |
| Check instrument log for samples in batch. Highlights. Make sure correct lab numbers are listed on all data. Check Chain of Custody and Login Sheet for project specific information. Check that all manual integrations are initialed and dated. | |
| TUNES: Check that the proper tune is included and that the appropriate lab #s are listed on the tune. Check that the tune meets the correct criteria. Check that all samples were run within 12 hours for 8270 and CLP, 24 hours for 625. | |
| BLANKS: Check quant report for compounds called and quantitation. Check if any compounds need to be flagged with a J. Check that blank meets contamination criteria. Check blank nontargeted results for proper CAS #, retention time, compound name, mw, concentration against spectra. Check blank chromatograms to ensure that all peaks are accounted for. Check that all compounds not called are crossed off, initialed and dated on quantitation reports and tics. Check that spectra are included for all compounds called. | |
| CALIBRATION: Check that the proper initial and continuing calibration forms are included. Compare initial curves to continuing curve to make sure correct curves are included. Verify dates on curves. Verify that extra compound initial and continuing curves are included. Check that SPCCS and CCCS meet criteria on the initial and continuing calibrations. | |
| SURROGATES: Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge). Check that surrogate recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Check that appropriate action was taken for surrogate recoveries which did not meet QC criteria (samples are re-extracted and re-analyzed to prove matrix interference). Verify surrogates reported to the quantitation reports. | |
| SPIKES: Verify that the correct spike sample is being reported for that batch. Check that the spike recoveries are reported in the appropriate form (i.e. water, soil). Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Verify spike recoveries to quantitation reports. If any values outside of QC limits exist on MS/MSD, was Blank Spike used. Non-conformances / Comments: | |
| A TOTAL COMMISSION OF COMMISSION | |

CHEMTECH

SOP ID: CKLST-SEMI-VOA-REV DOC. CONTROL #: CKLST-SEMI-VOA-REV -1.0 REVISION # 1.0 Page 2 of 2 Date: 04/28/00

SAMPLES:

| ITEM | Completed |
|--|---------------|
| Check that all manual integrations are initialed and dated. | |
| Check quant report for targeted compounds called and randomly verify quantitation (be sure to take moisture and dilutions into account). | |
| Verify that the appropriate number and largest non-target peaks are called. | |
| Check to ensure that compounds which exceed the linear range have been diluted re-analyzed, and quanted from the dilution. | |
| Check that reporting limits are typical and if not (reason is not apparent) are footnote | ed. |
| Verify reporting limits for extra compounds. | |
| Check nontargeted results for proper concentration, CAS #, retention time, compount to be flagged with B or J. | ds need |
| Check that spectra are included for all compounds called. | |
| Check chromatograms to ensure that all peaks are accounted for. | |
| Check if any of the data requires a footnote. | |
| Check that the samples were run / extracted within their holding time. | |
| Non - Conformance / Comments: | - |
| | |
| Peer Review Signature: Voupa D | ate: 8 11 0 8 |
| ** | • |
| ITEM TECHNICAL SUPERVISOR REVIEW: | Completed |
| Check for compliance with the Method and project specific requirements. Check the report for completeness. Check the information in the case narrative. Check the results for reasonableness. | |
| Technical Supervisor Review Signature: Dechklst-semi-voa-rev1.doc | ate: 81191,2 |

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

| OT. | IEMTECH PROJECT LAB NUMBER: 1342 MATRIX: LE ACHATE | - 0 | 081 | |
|-----|---|-------------|-----------|----|
| CI- | IEMTECH PROJECT LAB NUMBER: 13 200 MATRIX: LE 1041 METHO | D: <u>8</u> | | - |
| | | YES | <u>NA</u> | NO |
| 1. | Chromatograms Labeled/Compounds Identified. | | | |
| 2. | Standards Summary Submitted | | | |
| 3. | Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD | _/ | | |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | | |
| 5. | Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable | ranges. | | |
| _ | | | | |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable | range. | | _ |
| | matri, Interference | | | |
| | | | | |
| 7. | Retention Time Shift Meet Criteria (if applicable) | _ | | |
| 8. | Extraction Holding Time Met If not met, list number of days exceeded for each sample. | | | |
| 9 | Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable | range. | | |
| Ado | ditional Comments: RT updated as for SWSh6 | | | |
| Ana | Alay 12 | ひかン | - | |
| | R 8/19/02 | | | |
| OA | REVIEW Date | | | |

Revision #: 03.1

QA Control Code: A2040102

Revision Date: June 6, 2002 Effective Date: July 24, 2002

PEER REVIEW CHECKLIST FOR GC DATA Sample Numbers: QA DATA: ITEM Completed Check instrument log for samples in batch. Highlights. Make sure correct lab numbers are listed on all data. Check Chain Custody and Login Sheet for project specific information. Check that all manual integrations are initialed and dated. Verify that the retention time of every peak of interest meet the criteria for window (RT +3 times the standard deviation of the mean absolute value or default to 0.03 minutes.). BLANKS: Check quant report for compounds called and quantitation. Check if any compounds need to be flagged with a J. Check that blank meets contamination criteria. Check blank chromatograms to ensure that all peaks are accounted for. Check that all compounds not called are crossed off, initialed and dated on quantitation reports. CALIBRATION: Check that the proper initial and continuing calibration forms are included. Compare initial curves to continuing curve to make sure correct curves are included. Verify dates on curves. Verify that extra compound initial calibration and continuing are included. Verify that a continuous calibration check is run every 12 hrs for 8000 series and CLP and every 24hrs for 600 series Check that the criteria is met on the initial and continuing calibrations. 20% RSD for initial calibration and 15% for continuing calibration for 8000 series, 25% for CLP and 10% RSD and Table on SOP for continuing for 600 series Verify a closing check is analyzed for each analytical sequence Verify that the concentration of the CCC is varied SURROGATES: Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge). Check that surrogate recoveries meet QC limits listed on the form. Make sure values outside of limits are flagged and tallied. Check that appropriate action was taken for surrogate recoveries which did not meet OC criteria (samples are re-analyzed to prove matrix interference). Verify surrogates reported to the quantitation reports. SPIKES: Check that appropriate sample is on the spike recovery form. Verify that the correct spike sample is being reported for that batch. Check that the spike recoveries are reported on the appropriate form (i.e. water, soil). Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Verify spike recoveries to quantitation reports. Verify that a blank spike was analyzed for each batch of 20 samples. Verify that the blank spike meets QC requirements (70-130%). If any values outside of QC limits exist on MS/MSD, was Blank Spike used?

SOP ID: P201-Data Review-03.doc

-QA Control Code: A2040102 Revision #: 03.1

Revision Date: June 6, 2002 Effective Date: July 24, 2002

Non-conformances / Comments: SAMPLES: ITEM Completed Check that all manual integrations are initialed, dated and justified. Check that the correct sample matrix and units are on the result form. Check quant report for targeted compounds called and verify quantitation (be sure to take moisture and dilutions into account). Check to ensure that compounds which exceeds the linear range have been, diluted. re-analyzed, and quanted from the dilution. Check that reporting limits are typical and if not (reason is not apparent) are foomoted. Verify reporting limits for extra compounds. Check chromatograms to ensure that all peaks are accounted for. Check if any of the data requires a footnote. Check that the samples were analyzed / extracted within their holding time. Non - Conformance / Comments: Peer Review Signature: TECHNICAL SUPERVISOR REVIEW: Completed ITEM Check for compliance with the Method and project specific requirements. Check the report for completeness. Check the information in the case narrative. Check the results for reasonableness. Technical Supervisor Review Signature:

CHEMTECH 284 Sheffield Street. Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

| СН | IEMTECH PROJECT LAB NUMBER: 3425 MATRIX: 1216 METHOD: 8151 |
|----------|---|
| | YES NA NO |
| 1. | Chromatograms Labeled/Compounds Identified. |
| 2. | Standards Summary Submitted |
| 3. | Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank: |
| 5. | Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable range. |
| 7. | Retention Time Shift Meet Criteria (if applicable) Extraction Holding Time Met If not met, list number of days exceeded for each sample. |
| 9 | Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range. |
| <u> </u> | ditional Comments: A A O |
| | REVIEW Date ument Control # A3040027 Page 1 of 1 |

SOP ID: P201-Data Review-03.doc

Revision #: 03.1

Revision Date: June 6, 2002 Effective Date: July 24, 2002

OA Control Code: A2040102 PEER REVIEW CHECKLIST FOR GC DATA Sample Numbers: QA DATA: ITEM Completed Check instrument log for samples in batch. Highlights. Make sure correct lab numbers are listed on all data. Check Chain Custody and Login Sheer for project specific information. Check that all manual integrations are initialed and dated. Verify that the retention time of every peak of interest meet the criteria for window (RT ÷3 times the standard deviation of the mean absolute value or default to 0.03 minutes.) BLANKS: Check quant report for compounds called and quantitation. Check if any compounds need to be flagged with a J. Check that blank meets contamination criteria. Check blank chromatograms to ensure that all peaks are accounted for. Check that all compounds not called are crossed off, initialed and dated on quantitation reports. CALIBRATION: Check that the proper initial and continuing calibration forms are included. Compare initial curves to continuing curve to make sure correct curves are included. Verify dates on curves. Verify that extra compound initial calibration and continuing are included. Verify that a continuous calibration check is run every 12 hrs for 8000 series and CLP and every 24hrs for 600 series Check that the criteria is met on the initial and continuing calibrations. 20% RSD for initial calibration and 15% for continuing calibration for 8000 series, 25% for CLP and 10% RSD and Table on SOP for continuing for 600 series Verify a closing check is analyzed for each analytical sequence Verify that the concentration of the CCC is varied SURROGATES: Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge). Check that surrogate recoveries meet QC limits listed on the form. Make sure values outside of limits are flagged and tallied. Check that appropriate action was taken for surrogate recoveries which did not meet OC criteria (samples are re-analyzed to prove matrix interference). Verify surrogates reported to the quantitation reports. SPIKES: Check that appropriate sample is on the spike recovery form. Verify that the correct spike sample is being reported for that batch. Check that the spike recoveries are reported on the appropriate form (i.e. water, soil). Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Verify spike recoveries to quantitation reports. Verify that a blank spike was analyzed for each batch of 20 samples.

Verify that the blank spike meets QC requirements (70-130%).

If any values outside of QC limits exist on MS/MSD, was Blank Spike used?

CHEMTECH

TOP TO DON'T Day Parism by James

SOP ID: P201-Data Review-03.doc Revision #: 03.1

QA Control Code: A2040102

Revision Date: June 6, 2002 Effective Date: July 24, 2002

Non-conformances / Comments: SAMPLES: ITEM Completed Check that all manual integrations are initialed . dated and justified. Check that the correct sample matrix and units are on the result form. Check quant report for targeted compounds called and verify quantitation (be sure to take moisture and dilutions into account). Check to ensure that compounds which exceeds the linear range have been, diluted, re-analyzed, and quanted from the dilution. Check that reporting limits are typical and if not (reason is not apparent) are footnoted. Verify reporting limits for extra compounds. Check chromatograms to ensure that all peaks are accounted for. Check if any of the data requires a footnote. Check that the samples were analyzed / extracted within their holding time. Non - Conformance / Comments: Peer Review Signature! TECHNICAL SUPERVISOR REVIEW: ITEM Completed Check for compliance with the Method and project specific requirements. Check the report for completeness. Check the information in the case narrative. Check the results for reasonableness. Technical Supervisor Review Signature:

SOP ID: P201-Data Review-03 doc

Revision #: 03.1

Revision Date: June 6, 2002 Effective Date: July 24, 2002

OA Control Code: A2040102

PEER REVIEW CHECKLIST FOR GC DATA Sample Numbers: QA DATA: ITEM Completed Check instrument log for samples in batch. Highlights. Make sure correct lab numbers are listed on all data. Check Chain Custody and Login Sheet for project specific information. Check that all manual integrations are initialed and dated. Verify that the retention time of every peak of interest meet the criteria for window (RT ÷3 times the standard deviation of the mean absolute value or default to 0.03 minutes.) BLANKS: Check quant report for compounds called and quantitation. Check if any compounds need to be flagged with a J. Check that blank meets contamination criteria. Check blank chromatograms to ensure that all peaks are accounted for. Check that all compounds not called are crossed off, initialed and dated on quantitation reports. CALIBRATION: Check that the proper initial and continuing calibration forms are included. Compare initial curves to continuing curve to make sure correct curves are included. Verify dates on curves. Verify that extra compound initial calibration and continuing are included. Verify that a continuous calibration check is run every 12 hrs for 8000 series and CLP and every 24hrs for 600 series Check that the criteria is met on the initial and continuing calibrations. 20% RSD for initial calibration and 15% for continuing calibration for 8000 series, 25% for CLP and 10% RSD and Table on SOP for continuing for 600 series Verify a closing check is analyzed for each analytical sequence Verify that the concentration of the CCC is varied SURROGATES: Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge). Check that surrogate recoveries meet QC limits listed on the form. Make sure values outside of limits are flagged and tallied. Check that appropriate action was taken for surrogate recoveries which did not meet QC criteria (samples are re-analyzed to prove matrix interference). Verify surrogates reported to the quantitation reports. SPIKES: Check that appropriate sample is on the spike recovery form. Verify that the correct spike sample is being reported for that batch. Check that the spike recoveries are reported on the appropriate form (i.e. water, soil). Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Verify spike recoveries to quantitation reports. Verify that a blank spike was analyzed for each batch of 20 samples. Verify that the blank spike meets QC requirements (70-130%).

If any values outside of QC limits exist on MS/MSD, was Blank Spike used?

Revision Date: June 6, 2002 Effective Date: July 24, 2002 CHEMTECH
SOP ID: P201-Data Review-03.doc
Revision #: 03.1 QA Control Code: A2040102

| Non-conformances / Comments: | | | _* |
|---|--------|-----------|-------|
| SAMPLES: | 100 | Completed | |
| Check that all manual integrations are initialed, dated and justified. Check that the correct sample matrix and units are on the result form. Check quant report for targeted compounds called and verify quantitation (be sure to take moisture and dilutions into account). | | | ÷ |
| Check to ensure that compounds which exceeds the linear range have been, dilutere- re-analyzed, and quanted from the dilution. Check that reporting limits are typical and if not (reason is not apparent) are footn Verify reporting limits for extra compounds. | | | |
| Check chromatograms to ensure that all peaks are accounted for. Check if any of the data requires a footnote. Check that the samples were analyzed / extracted within their holding time. | | | |
| Non – Conformance / Comments; | | , | |
| | | <u> </u> | |
| | 5 | | |
| Peer Review Signature: | Date:_ | 08/05/02 | 2 |
| TECHNICAL SUPERVISOR REVIEW: | | Completed | |
| Check for compliance with the Method and project specific requirements. Check the report for completeness. Check the information in the case narrative. Check the results for reasonableness. | 183 | | • |
| Technical Supervisor Review Signature: | Date:_ | Ang os | 200 E |

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

| CH | iemtech project lab number: <u>P3,25</u> matrix: <u>Soci</u> metho | D: | 8015 | - |
|-----|---|---------|-----------|-------|
| | | YES | <u>NA</u> | NO |
| 1. | Chromatograms Labeled/Compounds Identified. | = | | |
| 2. | Standards Summary Submitted | | | |
| 3. | Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD | | | |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank: | - | | |
| - | | | | |
| 5. | Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable | ranges. | - | |
| _ | | | | |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable | range. | - | - |
| 7. | Retention Time Shift Meet Criteria (if applicable) | | | |
| 8. | Extraction Holding Time Met If not met, list number of days exceeded for each sample. | 2.5 | | |
| 9 | Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable | range. | | |
| Add | itional Comments: | * | | |
| | | | | |
| Ana | 1yst Date 8119162 | | -1,5 | |
| - | REVIEW Date | | - | |

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#:20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

| CHEMTECH PROJECT NUMBER: 13425 NT MATRIX: TUP |
|--|
| METHOD: SW 846 |
| 1. Calibration Summary meet criteria. NA NO YES |
| 2. ICP Interference Check Sample Results Summary Submitted Meet criteria Blank Contamination |
| 3. Serial Dilution Súmmary Submitted (if applicable)meet criteria |
| 4. Laboratory Control Sample Summary Submitted (if applicable) |
| 5. Blank Contamination If YES, list compounds and concentrations in each blank: |
| |
| 6. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside of the acceptance range: |
| 7. Sample Duplicate Analysis Meet QC Criteria: If not met, list those compounds and their % differences which fall outside of the acceptance range: |
| 8. Digestion Holding Time Met If not met, list number of days exceeded for each sample: |
| 9. Analysis Holding Time Met If not met, list number of days exceeded for each sample: |
| ADDITIONAL COMMENTS: |
| Donto Rogul Supervisor Date |
| R 8/19/2 |
| OA REVIEW Date |

CHEMTECH 205 CAMPUS PLAZA I. RARITAN CENTER EDISON NEW JERSEY 08837 NEW JERSEY LAB ID#: 12013: NEW YORK LAB ID#: 11376

GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

| CHEMTECH PROJECT NUMBER: P3425 | MATRIX: Solid |
|---|---------------------------------------|
| METHOD: SW846 | |
| | 109 |
| -60 | <u>NA NO YES</u> |
| 1. Blank Contamination | <u> </u> |
| If YES, list compounds and concentrations in each blank: | |
| | |
| 2. Matrix Spike Recoveries Meet Criteria | |
| If not met, list those compounds and their recoveries which fall outsic | de of the acceptance range: |
| (#1) | |
| | · · · · · · · · · · · · · · · · · · · |
| | / |
| 3. Sample Duplicate Analysis Meet QC Criteria: | |
| | |
| If not met, list those compounds and their % differences which fall out | tside of the acceptance range: |
| | 1 |
| | |
| Analysis Holding Time Met | |
| f not met, list number of days exceeded for each sample: | |
| | |
| · · · · · · · · · · · · · · · · · · · | 16° |
| DDITIONAL COMMENTS: | |
| DEITIONAL COMMENTS. | × - 10 |
| | X |
| | 8/12/02 |
| pervisor | Date 8/19/2 |
| R | 8/19/02 |
| A REVIEW | Date |

TCLP Volatiles SW-846

P3425 SDG No.:

Client:

PMK Group

Sample ID:

7/23/02

Date Collected: Date Analyzed: File ID:

8/2/02

Dilution:

VB080115.D

8260

5.0

Analytical Method:

Sample Wt/Wol:

Soil Aliquot Vol:

P3425-01

Units:

Client ID:

GC-2

Date Received:

7/23/02

Matrix:

TCLP .

Analytical Run ID: VB071702 Instrument ID:

MSVOAB

Associated Blank:

VBB0801W1

5 8/6/am

Soil Extract Vol:

% Moisture:

100

| | | | the state of the s | | | 310/0- |
|------------------------|------------|---------------|--|------------------|-------|---------|
| Parameter | CAS Number | Concentration | C | RDL | MDL | Units |
| TARGETS | | | | ÷ _v . | 1 | |
| Vinyl chloride | 75-01-4 | < 4.0 | U · | 25 | 4.0 | ug/L |
| 1,1-Dichloroethene | 75-35-4 | < 3.4 | U | 25 | 3.4 | ug/L |
| Chloroform | 67-66-3 | < 3.0 | U | 25 | 3.0 | ug/L |
| 1,2-Dichloroethane | 107-06-2 | < 2.8 | U. | 25 | 2.8 | ug/L |
| 2-Butanone | 78-93-3 | < 12 | U, | 25 | 12 | ug/L |
| Carbon Tetrachloride | 56-23-5 | < 2.4 | U | 25 | 2.4 | ug/L |
| Trichloroethene | 79-01-6 | < 3.6 | U | 25 | 3.6 | ug/L |
| Benzene | 71-43-2 | < 3.6 | U | 25 | 3.6 | ug/L |
| Tetrachloroethene | 127-18-4 | < 3.5 | U | 25 | 3.5 | ug/L |
| Chlorobenzene | 108-90-7 | < 3.9 | U. | 25 | . 3.9 | ug/L |
| SURROGATES | | 200 | - | | | tr |
| 1,2-Dichloroethane-d4 | 79-00-5 | 53.14 | 106 % | 68 - 135 | | SPK: 50 |
| Foluene-d8 | 2037-26-5 | 46.94 | 94 % | 70 - 125 | * | SPK: 50 |
| 4-Bromofluorobenzene | 460-00-4 | 47.68 | 95 % | 70 - 125 | | SPK: 50 |
| Dibromofluoromethane | - | 46.52 | -93 % | 70 - 125 | | SPK: 50 |
| INTERNAL STANDARDS | · · | 8 | - | | | |
| Pentafluorobenzene | 363-72-4 | 892581 | 7.52 | | | |
| 1,4-Difluorobenzene | 540-36-3 | 1'186778 | 8.74 | | | 3 |
| Chlorobenzene-d5 | 3114-55-4 | 939465 | 14.43 | | | |
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 618508 | 19.77 | 101 | | |
| 1,4-Diomorocaizene-da | J0JJ-0Z-1 | 0103,08 | 17.77 | | | 7.0 |
| € | | | | | | |

SVOC-Chemtech Full SW-846

P3425-01 SDG No.:

PMK Group Client:

P3425-01 Sample ID:

Date Collected: 7/23/02 7/24/02 Date Analyzed: Date Extracted: 7/23/02

Dilution:

8270 Analytical Method: 1.1

Sample Wt/Wol: Injection Vol:

Associated Blank:

2 PB072302-20B Client ID: GC-2

Date Received: 7/23/02

Matrix: SOIL File ID: BD001179.D 5971D Instrument ID:

Analytical Run ID: Extract Vol:

10000 % Moisture:

| Darameter | Concentration | C | RDL | MDL | Units | ¥2. | | |
|------------------------------|---------------|-----|--------|--------|-------|------|-----|-----|
| ARGETS | - | | | | | 4 | | 4 |
| Phenol | 360000 | | 94000 | 9400 | ug/Kg | 18 | | |
| is(2-Chloroethyl)ether | < 11000 | U | 94000 | 11000 | ug/Kg | | | |
| 2-Chlorophenol | < 10000 | U | 94000 | 10000 | ug/Kg | | 2 | 1 |
| ,2-Dichlorobenzene | < 9400 | U | 94000 | 9400 | ug/Kg | | 3 . | |
| ,3-Dichlorobenzene | < 11000 | U | 94000 | 11000 | ug/Kg | × | | |
| 1,4-Dichlorobenzene | < 9400 | U | 94000 | 9400 | ug/Kg | | | |
| enzyl Alcohol | < 9400 | U | 94000 | 9400 | ug/Kg | | | |
| -Methylphenol | 40000 | Ĵ | 94000 | 9400 | ug/Kg | - 4 | | |
| 2,2'-oxybis(1-chloropropane) | < 9400 | U | 94000 | 9400 | ug/Kg | | | |
| +4-Methylphenols | 43000 | J | 94000 | 17000 | ug/Kg | - 4 | | |
| Nitroso-di-n-propylamine | < 9400 | U | 94000 | 9400 | ug/Kg | | | 5 |
| Hexachloroethane | < 10000 | U × | 94000 | 10000 | ug/Kg | | | . 3 |
| itrobenzene | < 9400 | U | 94000 | 9400 | ug/Kg | | | |
| Isophorone | < 9400 | U | 94000 | 9400 | ug/Kg | | | 6 |
| 2-Nitrophenol | < 10000 | U | 94000 | 10000 | ug/Kg | (5) | | |
| 4-Dimethylphenol | 30000 | J | 94000 | 22000 | ug/Kg | 6 | | |
| bis(2-Chloroethoxy)methane | < 9400 | U | 94000 | 9400 | ug/Kg | | | |
| 4-Dichlorophenol | < 12000 | U | 94000 | 12000 | ug/Kg | | | |
| 2,4-Trichlorobenzene | < 11000 | U | 94000 | 11000 | ug/Kg | | | 9 |
| Benzoic acid | < 9500 | U | 94000 | 9500 | ug/Kg | | | |
| aphthalene | < 11000 | U. | 94000 | 11000 | ug/Kg | | | |
| Chloroaniline | < 11000 | υ. | 94000 | 11000 | ug/Kg | | | 2 |
| Hexachlorobutadiene | < 14000 | U | 94000 | 14000 | ug/Kg | | | |
| Chloro-3-methylphenol | < 10000 | U | 94000 | 10000 | ug/Kg | | | |
| Methylnaphthalene | < 11000 | U | 94000 | 11000 | ug/Kg | | | |
| Hexachlorocyclopentadiene | < 36000 | U | 94000 | 36000 | ug/Kg | | 7. | 12 |
| 1,6-Trichlorophenol | < 9400 | U | 94000 | 9400 | ug/Kg | | | |
| 4,5-Trichlorophenol | < 9400 | U | 240000 | 9400 | ug/Kg | A 1 | 25 | |
| 2-Chloronaphthalene | < 11000 | U | 94000 | 11000. | ug/Kg | | | |
| Nitroaniline | < 9400 | U | 240000 | 9400 | ug/Kg | 3. 9 | | |
| Dimethylphthalate | < 9400 | U . | 94000 | 9400 | ug/Kg | | | |

SVOC-Chemtech Full SW-846

SDG No.: P3425-01

Client: **PMK** Group

P3425-01 Sample ID:

Date Collected: 7/23/02 Date Analyzed: 7/24/02

Date Extracted: 7/23/02

Dilution:

Analytical Method: 8270

Sample Wt/Wol: 1.1

Injection Vol:

Associated Blank: PB072302-20B Client ID:

Date Received: 7/23/02

Matrix: File ID:

SOIL BD001179.D

5971D Instrument ID:

Analytical Run ID: Extract Vol:

10000

% Moisture:

4

GC-2

| Parameter | Concentration | C | RDL | MDL | Units | | |
|----------------------------|---------------------------------------|--------------|--------|-------|-------|-----|---|
| ARGETS | · · · · · · · · · · · · · · · · · · · | ¥ | | | | | * |
| ^A cenaphthylene | < 11000 | \mathbf{U} | 94000 | 11000 | ug/Kg | W-4 | 14 |
| .6-Dinitrotoluene | < 9400 | U | 94000 | 9400 | ug/Kg | | |
| 3-Nitroaniline | < 11000 | U | 240000 | 11000 | ug/Kg | | |
| cenaphthene | < 11000 | U | 94000 | 11000 | ug/Kg | | |
| 4-Dinitrophenol | < 19000 | U - | 240000 | 19000 | ug/Kg | | |
| 4-Nitrophenol | < 10000 | U | 240000 | 10000 | ug/Kg | | |
| ibenzofuran | 15000 | J | 94000 | 9400 | ug/Kg | | |
| 4-Dinitrotoluene | < 10000 | U | 94000 | 10000 | ug/Kg | * | |
| Diethylphthalate | < 9400 | U | 94000 | 9400 | ug/Kg | | |
| Chlorophenyl-phenylether | < 11000 | U | 94000 | 11000 | ug/Kg | | |
| Luorene | < 10000 | U | 94000 | 10000 | ug/Kg | | 4) — 4) |
| 4-Nitroaniline | < 22000 | U | 240000 | 22000 | ug/Kg | | 2 |
| 6-Dinitro-2-methylphenol | < 11000 | U | 240000 | 11000 | ug/Kg | | |
| N-Nitrosodiphenylamine | < 19000 | U | 94000 | 19000 | ug/Kg | | |
| Azobenzene | < 10000 | U | 94000 | 10000 | ug/Kg | | |
| Bromophenyl-phenylether | < 12000 | U | 94000 | 12000 | ug/Kg | | |
| Hexachlorobenzene | < 10000 | U | 94000 | 10000 | ug/Kg | 50 | .* |
| Pontachlorophenol | < 18000 | U | 240000 | 18000 | ug/Kg | | |
| lenanthrene | < 9400 | U | 94000 | 9400 | ug/Kg | * | 19 197 |
| Anthracene | < 12000 | U | 94000 | 12000 | ug/Kg | | × . |
| -n-butylphthalate | < 11000 | U | 94000 | 11000 | ug/Kg | | |
| ioranthene | < 9400 | U | 94000 | 9400 | ug/Kg | 127 | |
| Benzidine | < 10000 | U | 94000 | 10000 | ug/Kg | ? | 2.77 |
| rene | < 9400 | U | 94000 | 9400 | ug/Kg | | |
| Litylbenzylphthalate | < 9400 | U | 94000 | 9400 | ug/Kg | * | |
| 3,3'-Dichlorobenzidine | 12000 | J | 94000 | 9400 | ug/Kg | | * |
| nzo(a)anthracene | < 9400 | U | 94000 | 9400 | ug/Kg | | |
| urysene | < 15000 | U | 94000 | 15000 | ug/Kg | | |
| pis(2-Ethylhexyl)phthalate | < 9400 | U , | 94000 | 9400 | ug/Kg | | |
| -n-octyl phthalate | < 14000 | U | 94000 | 14000 | ug/Kg | | - 001 |
| Benzo(b)fluoranthene | < 9400 | U | 94000 | 9400 | ug/Kg | | * |

SVOC-Chemtech Full SW-846

SDG No.:

P3425-01

Client:

PMK Group

Sample ID:

P3425-01

Client ID:

GC-2

Date Collected: Date Analyzed:

7/23/02 7/24/02 7/23/02

Date Extracted: Dilution:

Analytical Method:

Sample Wt/Wol:

2

Injection Vol:

Associated Blank:

8270 1.1

PB072302-20B

Date Received:

7/23/02 SOIL

Matrix: File ID:

BD001179.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

10000

| 6 | Moisture: | 4 | | | | | |
|---|-----------|----|--|--|--|--|--|
| | 3 | 11 | | | | | |

| Parameter | Concentrati | ion | C | | RDL | MDL | Units | | |
|------------------------------|-------------|-----|-------|------|-------------|-------|----------|-----|-----|
| TARGETS | | | | | | 3 | | | |
| Penzo(k)fluoranthene | < 24000 | | U | | 94000 | 24000 | ug/Kg | | |
| enzo(a)pyrene | < 14000 | ,* | U | | 94000 | 14000 | ug/Kg | | |
| Indeno(1,2,3-cd)pyrene | < 15000 | | Ü | | 94000 | 15000 | ug/Kg | | |
| ibenz(a,h)anthracene | < 14000 | | U | | 94000 | 14000 | ug/Kg | | 8 |
| enzo(g,h,i)perylene | < 12000 | 3 | U | | 94000 | 12000 | ug/Kg | +1 | |
| SURROGATES | | - | | | | 1 | - D | | |
| Fluorophenol | 115 | | 38 % | | 25 - 121 | 1.0 | SPK: 300 | | |
| Phenol-d5 | 142 | | 47 % | | 24 - 113 | | SPK: 300 | | |
| itrobenzene-d5 | 133 | 10 | 66 % | | 23 - 120 | | SPK: 200 | | |
| Fluorobiphenyl | 116 | | 58 % | | 30 - 116 | | SPK: 200 | | |
| 2,4,6-Tribromophenol | 120 | | 40 % | | 19 - 122 | | SPK: 300 | | ē, |
| erphenyl-d14 | 132 | | 66 % | | 18 - 137 | | SPK: 200 | | |
| INTERNAL STANDARDS | | | | | | | | | |
| 4-Dichlorobenzene-d4 | 104447 | | 6.27 | | 4 | | | | |
| aphthalene-d8 | 294564 | | 8.75 | Sec. |). E | 5 | y. | | 5 |
| Acenaphthene-d10 | 198213 | | 12.51 | | | | | 7). | |
| enanthrene-d10 | 274302 | | 15.70 | | | | | | |
| rysene-d12 | 203778 | | 21.54 | | | | 12 | | |
| Perylene-d12 | 153240 | , | 24.47 | | | | 9 | | * |
| ENTITIVE IDENTIFIED COMP | OUNDS | 1 | | | | · | | | |
| Phenol, 2,2-methylenebis- | 190000 | | J | | 17.58 | | ug/Kg | | - |
| Enzene, 1-methoxy-3-phenoxy- | 690000 | | J | 14 | 17.95 | | ug/Kg | | |
| iknown | 23000 | | J | | 18.24 | | ug/Kg | | - E |
| Unknown | 37000 | | J | | 18.31 | | ug/Kg | | |
| liknown | 61000 | | J | | 19.00 | | ug/Kg | | |
| Uaknown | 33000 | | J | | 19.02 | | ug/Kg | | |
| Unknown | 83000 | | J | | 19.03 | | ug/Kg | | |

Themtech Consulting Group

TCLP BNA SW-846

SDG No.: P3425-01

Client:

PMK Group

Sample ID:

P3425-01

7/23/02

Date Analyzed: Date Extracted:

Date Collected:

8/6/02 8/1/02

Dilution:

Sample Wt/Wol:

Injection Vol: Associated Blank:

Analytical Method:

100.0 2

8270

Client ID:

GC-2

Date Received:

Matrix:

7/23/02 WATER

File ID:

BD001532.D

Instrument ID:

5971D BD080502

Analytical Run ID: Extract Vol:

1000

% Moisture:

| Prameter | Concentration | C | RDL | MDL | Units | | | |
|----------------------|---------------|-------|-------------------------|-------|------------|----------|-----|-----|
| LARGETS | | | | | | | | 3 |
| 2 ridine | < 11 | U | 99 | 11 | ug/L | | ű. | |
| ·Dichlorobenzene | < 9.9 | U | 99 | 9.9 | ug/L | | | |
| :-Methylphenol | 760 | 2 | 99 | 9.9 | ug/L | ۵. | | |
| -Methylphenols | 680 | (4). | 99 | 18 | ug/L 8/6/0 | σ | | Y |
| achloroethane | < 11 | U | 99 | 11 | ug/L | | | |
| Vitrobenzene | < 9.9 | U | 99 | 9.9 | ug/L | | | |
| cachlorobutadiene | < 15 | U | 99 | 15 | ug/L | | | |
| ,,5-Trichlorophenol | < 9.9 | U | 250 | 9.9 | ug/L | | | |
| ,4,6-Trichlorophenol | < 9.9 | U | 99 | 9.9 | ug/L | | 25 | |
| Dinitrotoluene | < 11 | U | 99 | 11 | ug/L | | | 5 |
| fexachlorobenzene | < 11 | U | 99. | 11 | ug/L | | | |
| entachlorophenol | < 19 | U | 250 | 19 | ug/L | | | |
| ROGATES | | | | | | - | | |
| -Fluorophenol | 79.76 | 27 % | 21 - 100 | | SPK: 300 | 8 | | 35. |
| nol-d5 | 56.18 | 19 % | 10 - 94 | | SPK: 300 | | | |
| mobenzene-d5 | 173.13 | 87 % | 35 - 114 | | SPK: 200 | 45 | | |
| -Fluorobiphenyl | 176.74 | 88 % | 43 - 116 | | SPK: 200 | | 74 | |
| , 6-Tribromophenol | 202.62 | 68 % | 10 - 123 | | SPK: 300 | | | |
| erphenyl-d14 | 247.03 | 124 % | 33 - 141 | | SPK: 200 | 3 | | |
| ERNAL STANDARDS | | | | | | (*) | | |
| -Dichlorobenzene-d4 | 47469 | 5.94 | . w | | E/ | | | * |
| aphthalene-d8 | 131262 | 8.40 | | 10.00 | * | | | |
| (naphthene-d10 | 104211 | 12.14 | | | * | | 185 | |
| ienanthrene-d10 | 160932 | 15.30 | | | | | | 9 2 |
| hovsene-d12 | 110388 | 21.18 | | ** | | | | |
| : clene-d12 | 74811 | 24.08 | - ducate de la companie | | | | | · · |

TCLP Pesticide SW-846

7/23/02

SDG No.: P3425-01

Client: PMK Group

Sample ID: P3425-01 GC-2 Client ID:

Date Collected: 7/23/02 Date Received: 8/3/02 Date Analyzed: Date Extracted: 8/1/02

TCLP Matrix: File ID: 3PS6886.D ECD3

Dilution: Instrument ID: Analytical Method: 8081 3PS0729 Analytical Run ID:

Associated Blank: PB080202-10B % Moisture: 100.0

| Parameter | | | Concen | tration | C | | RDL | MDL | Un | its | | | - | |
|-----------------------------|--|-----|---------|---------|-----|-----|----------|-------|-----|---------------|---|----|-----|----|
| TARGETS gamma-BHC (Lindane) | | | < 0.09 | | U | | 0.50 | 0.09 | ug/ | L | , | | | 7. |
| Heptachlor | | | < 0.07 | | U | * | 0.50 | 0.07 | ug/ | L | | | | |
| Heptachlor epoxide | | | < 0.08 | | U | × , | 0.50 | 0.08 | ug/ | L | | | 5 | |
| Endrin | | | < 0.22 | | U | | 0.50 | 0.22 | ug/ | L | | | | |
| Methoxychlor | | | < 0.08 | | U | * * | 0.50 | 0.08 | ug/ | L. | | | | |
| Toxaphene . | | 2.5 | < 1.200 | | U | - | 5.0 | 1.200 | ug/ | L | | | 2 × | |
| Chlordane | | | < 1.300 | 180 | U | | 5.0 | 1.300 | ug/ | L | | 9. | | |
| SURROGATES | | | 8 | | | | | | | | | 34 | 100 | |
| Decachlorobiphenyl | | | 10.9 | | 54 | % | 30 - 150 | | SPI | C : 20 | | | | * |
| retrachloro-m-xylene | | | 20.15 | | 101 | % | 30 - 150 | 8 | SPI | C: 20 | | | - | |

TCLP Herbicides SW-846

SDG No.:

P3425-01

Client:

PMK Group

Sample ID:

P3425-01

Client ID:

GC-2

Date Collected:

7/23/02

Date Analyzed: Date Extracted:

8/6/02 8/3/02

Dilution:

Analytical Method:

TCLP Herbicide

% Moisture:

100.0

Date Received:

Matrix:

File ID: Instrument ID:

Analytical Run ID:

Associated Blank:

7/23/02

TCLP

6PC0844.D ECD5

6PC0802

PB080502-14 B

| Parameter | 2.5 | Concentration | C | RDL | MDL | Units | , , | - | | |
|-------------------|-----|---------------|------|----------|-------|---------|-----|----|-----|---|
| TARGETS | | | - | | | | | | | _ |
| 2,4-D | | < 0.24 | U | 1.0 | 0.24 | ug/L | | | | |
| 2,4,5-TP (Silvex) | | < 0.09 | U | 1.0 | .0.09 | ug/L | ,41 | ., | | |
| SURROGATES | | | | * | | | | | 141 | 3 |
| 2,4-DCAA | | 37.3 | 75-% | 24 - 151 | | SPK: 50 | 180 | | | |
| | | | | | | | | | | |

TABULATED ANALYTICAL REPORT QUALITATIVE GC FINGERPRINT BY 8015

CLIENT: PMK GROUP

CLIENT PROJECT: Veterans Memorial Pa

 REPORT DATE
 8/5/02

 PROJECT RECEIVED DATE:
 7/23/02

 ANALYSIS DATE
 7/23/02

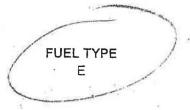
 EXT. DATE:
 7/23/02

 MATRIX:
 SOIL

 LAB PROJECT:
 P3425

 CLIENT ID
 FILE ID
 LAB ID

 GC-2
 BA5790
 P3425-01



COMMENTS:

FT: FUEL TYPE <= LESS THAN

MDL= METHOD DETECTION LIMIT

J= 10 W LUBRICATING OIL

A=GASOLINE K= 20 W LUBRICATING OIL
B= KERSOENE WITH SOME UNKNOWN FUEL OIL L= 30W LUBRICATING OIL

C= #2 FUEL OIL M= 40 W LUBRICATING OIL

D= #4 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= #2 FUEL OIL

CW= F

E= NO CALIBRATED FUEL TYPE DETECTED

DW= #4 FUEL OIL WEATHERED

F=KEROSENE HW= #6 FUEL OIL, WEATHERED

H= #6 FUEL OIL ND = NOT DETECTED (CONC)
P= CLIENT KNOWN FUEL PRODUCT CS = CLIENT STANDARD

KW KEROSENE WEATHERED N = JET FUEL STANDARD

PI= PAINT THINNER S= DIESEL
MS= MINERAL SPIRITS CT=COAL TAR

METALS

-1 -INORGANIC ANALYSIS DATA PACKAGE

| Client: | PMK Group | | | _ | SD | GNo.: P | 3425 | | M | ethod ? | Гуре: SW846 | |
|---------------|----------------|--------|----------|----------|--------|----------|--------|----------|--------------|---------|-------------------|-----|
| Sampl | e ID: P3425-01 | · | | | | | Client | ID: GC-2 | 3 | | 1. | |
| Contr | act: PMK Grou | р | 9 | Lab (| ode: | СНЕМЕД | | ase No.: | | SA | AS No.: P3425 | 1 8 |
| Matrix % Soli | | | Date R | eceived: | 7/23/0 |)'2 | Level: | LOW | | | | |
| CAS No. | Analyte | Concer | itration | Units | C | Qual | M | DL | Instrument I | D | Analytical Run | |
| :40-38-2 | Arsenic | | 45.0 | ug/L | U | | P | 45.0 | P1 | | P180502 | |
| 40-39-3 | Barium | | 268 | ug/L | В | | , P | 99.0 | P1 | | P180502 | , |
| 40-43-9 | Cadmium | v | 8.0 | ug/L | U | | P | 8.0 | P1 | | P180502 | |
| 40-47-3 | Chromium | | 14.0 | ug/L | U ' | | P | 14.0 | P1 | | P180502 | 9. |
| 39-92-1 | Lead | | 30.0 | ug/L | U | | P | 30.0 | P1 | | P180502 | |
| 39-97-6 | Mercury | | 2.0 | ug/L | U | | CV | 2.0 | CV1 | | 080602A | |
| 82-49-2 | Selenium | | 9.4 | ug/L | В | | P | 9.0 | P1 | | P180502 | 4 |
| 40-22-4 | Silver | | 37.0 | ug/L | U | | P | 37.0 | P1 | | P180502 | |
| Color Be | fore: COLORL | ESS | Α. | Clarity | Befo | re: CLEA | R: | | Texture: | | | |
| Color Aft | | ESS | | Clarity | Afte | r: CLEA | R | | Artifacts: | 5 4 | | |

Chemtech Consulting Group

GENERAL CHEMISTRY Analyses Data Sheet

SDG No.: P3425

Sample ID: P3425-01

P3425-01

Client ID:

GC-2

Contract:

PMK Group

Date Collected:

7/23/02

Date Received:

7/23/02

Matrix:

SOIL

% Solids:

95.80

| Analyte | Method | Result | Units | С | Qual | DF | Analytical Date | | |
|---------------------|-----------|--------|--------|----|------|----|--------------------|----|--|
| Reactive Cyanide | 7.3.3.2 | < 10 | mg/Kg | U | | 1 | 7/29/02 | | |
| Reactive Sulfide | 7.3.4.2 | < 40.0 | mg/Kg' | Ū, | | 1 | 7/29/02 | | |
| Corrosivity (as pH) | EPA 9045C | 7.4 | PH | | | 1 | 7/31/02 | | |
| Ignitability | EPA 1010 | No | Ignite | | | 1 | 8/2/02 | ** | |

Comments:

| | . 28 | | | | | | ä | | | |
|----------------|---------|-----|---|----|---|------|--------|-----|------|----|
| 1 | | | | | | | | | | |
| | | P V | 8 | | | 2 | | | | |
| | | | | | | | | | | |
| | | | | 2. | | | 25 | | | |
| Ĉ. | e ec | | | 31 | | | e E | | | |
| i. | | | | | | | | | | |
| | | | | , | | | | | | |
| की है | | | | | | Si o | × | | × | |
| | | | · | | | | ž a | | | |
| д. Ж. | | | ` | | | | | ži. | | |
| | 9 | | | ø | | | | | | e |
| | | | | | | d | | | 1903 | |
| | | | | | | | 6 | | | ×. |
| 14 18 48 | v | | | | | | 9 | | | |
| :5- | | | | | 9 | | | | | |
| | | | | | | | | | | |
| e e | | | | | | | £ | | | |
| şî. | × | | | | | | | | | |
| | | | | | | | | | | |



DATA PACKAGE FOR VOLATILE ORGANICS SEMI-VOLATILE ORGANICS GC SEMI-VOLATILES METALS GENERAL CHEMISTRY

PROJECT NAME: Veterans Memorial Park

PMK GROUP 65 JACKSON DRIVE CRANFORD, NJ 07016 9084978900

CHEMTECH PROJECT NO. ATTENTION:

P3702 Devang Patel

COVER PAGE

ProjectID: Veterans Memorial Park

Order

P3702

CustomerName PMK Group

| IPLE NO |
|---------|
| |
| |
| |
| |
| 3 |
| |
| |
| 7) |
| |
| |
| |
| |

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

| Signature Carole Collins | Name: CATOLO | Collins |
|--------------------------|--------------|---------|
| Date: 8/27/03 | Title: 04/00 | |

NYDOH CERTIFICATION NO.11376

NJDEP CERTIFICATION NO. 12013

QA/QC DELIVERABLES CHECKLIST

Project Number: P3700

THIS FORM HAS BEEN COMPLETED BY CHEMTECH LABORATORY AND ACCOMPANIES ALL DATA DELIVERABLES PACKAGES.

The following laboratory deliverables are included in this analytical report. Any deviations from the accepted methodology and procedures, or performance values outside acceptable ranges are summarized in the Non-Conformance Summary.

| 4 | The second secon | Yes NA |
|-------|--|------------------|
| I. | Report Cover Page, Laboratory Certification and Field San | |
| * | to Lab Sample ID Cross Reference | |
| | | |
| Π. | Table of Contents | · - · |
| Ш. | Chain of Custody Documents | |
| IV. | Methodology Summaries | |
| .V. | Laboratory Chronicle and Hold Time Checks | <u> </u> |
| VI. | Non-Conformance Summary | |
| VII. | Tabulated Analytical Results | <u> </u> |
| VШ. | Initial and Continuing Calibration Information | |
| IX. | Tune and Internal Standard Area Summaries (GC/MS) | <u> </u> |
| Χ. | Quality Control Summary Reports | / - |
| XI. | Surrogate Recovery Summary | |
| XII. | Raw Data Chromatogram, Blank, Samples and QC when applicable | |
| | The state of the s | 1 |
| KIII. | Subcontract Data | |
| | | |
| à | ole Collins | colrel8 |
| | QA/QC Data Reviewer | Date |

☐ I10 Route 4 Englewood, NJ .07631 Phone: 201 566 7400 Fax. 101 767 3111 C 284 Sheffield Street
Mountainside, NJ 07092

TABLE OF CONTENTS PROJECT NUMBER: P3702NJ

| CHAIN OF CUSTODY | PAGE 07 |
|---|---|
| METHOD SUMMARIES | 12 |
| LABORATORY CHRONICLE | 15 |
| CASE NARRATIVE / NON - CONFORMANCE SUMMARY | 17 |
| VOALITILES ORGANIC DATA ANALYTICAL RESULTS SUMMARY TUNNING RESULTS SUMMARY METHOD BLANK RESULTS SUMMARY CALIBRATION SUMMARY SURROGATE COMPOUND RECOVERY RESULTS SUMMARY MS/MD RESULTS SUMMARY INTERNAL STANDARDS CHROMATOGRAMS | 34 35 58 62 69 74 77 80 85 |
| SEMI-VOALITILES ORGANIC DATA ANALYTICAL RESULTS SUMMARY TUNNING RESULTS SUMMARY METHOD BLANK RESULTS SUMMARY CALIBRATION SUMMARY SURROGATE COMPOUND RECOVERY RESULTS SUMMARY MS/MD RESULTS SUMMARY INTERNAL STANDARDS CHROMATOGRAMS | 168 169 203 208 213 222 226 233 240 |
| PESTICIDE/PCBS DATA ANALYTICAL RESULTS SUMMARY METHOD BLANK RESULTS SUMMARY CALIBRATION SUMMARY SURROGATE COMPOUND RECOVERY RESULTS SUMMARY MS/MD RESULTS SUMMARY RETENTION TIMES SUMMARY CHROMATOGRAMS | 412 413 424 426 436 438 441 444 |
| PCBs DATA ANALYTICAL RESULTS SUMMARY METHOD BLANK RESULTS SUMMARY CALIBRATION SUMMARY SURROGATE COMPOUND RECOVERY RESULTS SUMMARY MS/MD RESULTS SUMMARY RETENTION TIMES SUMMARY CHROMATOGRAMS | 467 468 482 484 515 517 520 |

CHEMTECH 284 SHEFFIELD STREET MOUNTAINSIDE, NJ 07092 pH. (908) 789 8900

| METALS DATA | 554 |
|--|-----|
| ANALYTICAL RESULTS SUMMARY | 555 |
| METHOD BLANK RESULTS SUMMARY | 566 |
| CALIBRATION SUMMARY | 578 |
| ICP ICS RESULTS SUMMARY | 590 |
| SPIKED SAMPLE RESULTS SUMMARY | 593 |
| DUPLICATE SAMPLE RESULT SUMMARY | 598 |
| LABORATORY CONTROL SAMPLE REESULTS SUMMARY | 603 |
| SERIAL DILUTION RESULTS SUMMARY | 606 |
| GENERAL CHEMISTRY DATA | 608 |
| ANALYTICAL RESULTS SUMMARY | 609 |
| QC RESULTS | 620 |
| TOTAL NUMBER OF PAGES | 626 |



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

| CHEMTECH JOB NO.: | P3702 |
|-------------------|-------|
| CHEMTECH QUOTE N | O.: |

| | 1. Company of the com | | ** ** ** . | Onomi | 0011.110 | • | | | | | | - | | | | 120 | |
|--|--|--|-------------------------------|-------------------------------|--|--------------|----------------|--------|------------|---------|-----------------|----------|---------|--------|-------|--|--|
| | CLIENT INFORMATION | | | PROJEC | CT INFORM | OITAN | N . | | | | | | BILL | ING IN | FORMA | ATION | |
| COMPANY: | PMK | PROJECT | T NAME: | Vol | Rons | Nex | NONIG | 1/2 | 1/ | BILL TO | D: | | 4 | 0 0 | | PO #: | |
| ADDRESS: | 65 Jeckson Drive | PROJECT | ΓNO.: | 050 | 020 | 14 | | | | ADDRE | SS: | V | | VI | ti | ノ | * |
| CITY: CA | ANFORD STATE: N 3 ZIP: 070/6 | PROJEC | T MANAC | ier: // | Povar | C | Pa | /2/ | | CITY: | | | / / | / | STATI | E: ZIP: | |
| | Devons Palel | LOCATIO | N: 5 | c4// | P | kir | - (n) | / | | ATTEN | TION: | | | | PHON | NE: | |
| 1 | -497-8900 FAX: 908- 497-8943 | | | 2 | FAX | - | | ř | 1 | | | ANALYSIS | | | | | |
| | DATA TURNAROUND INFORMATION | | DATA | DELIVER | RABLE INF | ORMA | ATION | . Fig. | | | / , | / | / | / . | / | /// | // |
| FAX: HARD COPY: _ EDD: * TO BE APPR | DAYS DAYS DAYS DAYS DAYS DAYS DAYS | ☐ RESUL ☐ RESUL ☐ REGUL ☐ ATEW J ☐ CLP S4 EDD F | TS PLUS ATORY F ERSEY R | QC [DRMAT, ST EDUCED [| NY STATI NY STATI TATE: DELIVERAB | CATE | | A | | 1/4 | / 5 | / | /1 | /8 | //9 | | |
| СНЕМТЕСН | | | SAMPLE | | MPLE | LES | | | # 1 | PRES | SERVA | TIVES | | | 25 | COMMEN | 新田田田 |
| SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | COMP GRAB | DATE | TIME | # OF BOTTLES | 1 | 2 | 3 | _4 | 5 | 6 | 7 | 8 | 9 | C − H ₂ SO ₄ D | ervatives - HNO₃ - NaOH - Other |
| 1. 01 | TP-31 | Soil | × | 8/9/07 | 1032 | 2 | x | χ | | | | | | | | | |
| 2. 02 | TP-33 | 5011 | 14 | 1 | 11170 | Z | K | × | | | | | | | | | |
| 3. 63 | TP-34 | 5011 | × | | 1138 | 7 | × | × | | | | 74 | | | | | |
| 4. 04 | T0-6d | Soil | × | | 12:10 | 2 | × | 8 | | | | | | | | | |
| 5. 05 | TP-6 | Soil | k | | 12:13 | 2 | × | × | | | | - | | | | | |
| 6. 06 | TO- 14 | Soil | , po | | 13:15 | 2 | 2 | × | | | | | | | | | |
| 7. 67 | T0-4d | 301 | 4 | | 13:20 | 0 | | P | - | | | | | | | | |
| 8. 08 | TD-17 | 6.1 | - 7 | 1 | 12:45 | 7 | 70 | 0 | | | | | | | | | |
| | SAMPLE CUSTODY MUST BE DO | CUMENTE | D BELO | V EACH 1 | IME SAM | LES | CHANG | E POSS | SESSIC | ON INC | LUDING | a COU | RIER D | ELIVER | AY | | |
| RELINQUISITED BY | DATE/TIME: RECEIVED BY: 1. George | | | Con | ditions of b | | | | | | mpliant | | | | | Temp. of Cooler | 2.0 |
| RELINOUISHED BY | DATE/TIME: RECEIVED BY: | | 1 | | | | ¹ 4 | | | | | | | | | 1 | |
| AELINGUISHED BY | oc Stylle 8/9/12 440 3. Gara | AB BY | ks | Page | - / | of_ | 2 | SI | HIPPED | VIA: CL | IENT: IEMTEC | □ HAN | D DELIV | /ERED | OVERN | THE RESIDENCE OF THE PROPERTY OF THE PARTY O | Complete: |



284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax (908) 789-8922 www.chemtech.net

卷 級紅 野食 :

| CHEMTECH JOB NO.: P3702 | |
|-------------------------|--------|
| CHEMTECH QUOTE NO: | - × |

| | CLIENT INFORMATION | PI | ROJECT INFORM | ATION | | | В | ILLING INFORM | IATION |
|--------------------------|---|---|--|---------------|----------------|--------------------------|--------------|--------------------------------|--|
| COMPANY: | PEPORT TO BE SENT TO: | | Veters | | e (MON10 | BILL TO: | - V |) // |) PO#: |
| ADDRESS: | 65 Jackson PRIV | PROJECT NO.: | 5070, | 14 | | ADDRESS: | N | /// | 11 |
| CITY: (R) | ANFORD STATE: NS ZIP: 070/0 | | | | 10/ | CITY: | // | STAT | ΓΕ: ZIP: |
| ATTENTION: | Devery Datel | LOCATION: SO | oth Pi | lain fio | 10 | ATTENTION | WENT TO CASE | РНО | NE: |
| PHONE 90 | 8-497-8508AX:508-497-854 | PHONE: | FAX: | | ** | | | ANALYSIS | |
| | ATA TURNAROUND INFORMATION | | LIVERABLE INFO | ORMATION | | | // | | //// |
| B . | DAYS * DAYS * DAYS * DAYS * DAYS * DAYS * | RESULTS ONLY RESULTS PLUS QC BEGULATORY FORM NEW JERSEY REDU CLP DEDD FORMAT: | ☐ NY STATE MAT, STATE: JCED DELIVERABL | | PP-W | 3/4/ | 5 6 | 7 8 | 9 |
| апанияминамини | THE THE THE CASE STORES SHOP FANALLY CONTROL IN SOUR SHOP IN A SHOP IN SOUR | SAMPLE | SAMPLE | ES | | PRESERV | ATIVES | | COMMENTS |
| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | MATRIX & @ | OATE TIME | # OF BOTTLES | 2 3 | 4 5 | 6 7 | 7 8 9 | ← Specify Preservatives A – HCI B – HNO ₃ C – H ₂ SO ₄ D – NaOH E – ICE F – Other |
| 1. 09 | TP-10 | 501/ 78 | 19/00/1437 | 2 4 | P | | | | |
| 2. <i>Î 6</i> | TP-10d | V 78 | 9/27/442 | 2 x | x | | | | |
| 3. // | 73080807 | Ag 8 | 17/00 | 1 | X | | | | |
| 4. | | | 1 | | | | | | |
| 5. | | 111 | | | | | | | |
| 6. | 14 | 44 | 9/02 | | | | | | |
| 7. | | -/ | 7 | | | | | | |
| 8. | | | | | | | | | |
| RELINQUISHED BY | SAMPLE CUSTODY MUST BE DO | 51 | r | | | | | | Tomp of Cooler 3 |
| 1. RELINOUSHED BY | DATE TIME: 4:175 RECEIVED BY: 1 4 9 07 1 CO 5 C RECEIVED BY: | STEPHEN | Conditions of bo | ules of coole | rs at receipt: | ⊆ Complia | ina ⊔ Non | i-Compilant L | Temp. of Cooler |
| RELINQUISHED BY | DATE/TIME: / HECEIVED FOR L | AB BY: STyles | Page_ Z | of 2 | SHIPPE | D VIA: CLIENT: CHEMTI | : | ELIVERED O\ KED UP OVER | /ERNIGHT Shipment Complete: RNIGHT □ YES □ NO |

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

| | p p |
|-------|--|
| Value | If the result is a value greater than or equal to the detection limit, report the value |
| Ŭ | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required. |
| J | Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation |
| В | arise on any organic parameter i.e. Pest, PCB and others. Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| E | Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| D | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| P | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P". |
| N | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. |

For generic characterization of a TIC, such as chlorinated hydrocarbon,

the flag is not used.

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

| | · · · · · · · · · · · · · · · · · · · |
|--------|---|
| В | If the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to |
| \$0.87 | the Instrument Detection Limit (IDL). |
| 12 | * |
| Ū | If the analyte was analyzed for, but not detected. |
| E | The reported value is estimated because of the presence of interference |
| М | Duplicate injection precision not met. |
| N . | Spiked sample recovery not within control limits. |
| S | The reported value was determined by the Method of Standard Addition (MSA). |
| W | Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while absorbance is less that 50% of spike absorbance. |
| 1214 | Duplicate analysis not within control limits. |
| | Duplicate alarysis not within cortain innies. |
| + * | Correlation coefficient for the MSA is less than 0.995. |
| *** | Entering "S", "W" or "+" is mutually exclusive. NO combination of these qualifiers can appear in the same field for an analyte. |
| | |
| 3.6 | |
| M | Method qualifiers |
| | "P" for ICP instrument |
| | "A" for Flame A.A |
| K-1 | "PM" for ICP when Microwave Digestion is used |
| | "AM" for flame AA when Microwave Digestion is used |
| | "FM" for furnace AA when Microwave Digestion is used |
| - | "CV" for Manual Cold Vapor AA |
| e i | "AV" for automated Cold Vapor AA |
| | "CA" for MIDI-Distillation Spectrophotometric |
| a E | "AS" for Semi -Automated Spectrophotometric |
| | "C" for Manual Spectrophotometric |
| | "T" for Titrimetric |
| | "NID" Consolidate and to be analysed |

"NR" for analyte not required to be analyzed

CHEMTECH

284 Sheffield Street, Mountainside 07092 Tel: 908-789-8900 Fax: 908-789-8922

METHODOLOGY

Volatile Organic by GC/MS

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

** Method 8260B

Semi-Volatile Organic by GC/MS

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

** Method 8270C

Semi-Volatile Extraction - Sonication Extraction

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

** Method 3550B

Organochlorine Pesticides & PCBs

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 8081/8082

Antimony

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

Arsenic

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

Beryllium

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

Cadmium

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

Chromium

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

Copper

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

Lead

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

Mercury

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 7471

Nickel

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition

**Method 6010B

CHEMTECH

284 Sheffield Street, Mountainside 07092 Tel: 908-789-8900 Fax: 908-789-8922

Selenium

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition **Method 6010B

Silver

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition **Method 6010B

Thallium

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition **Method 6010B

Zinc

*Test Methods for Evaluating Solid Wastes, SW846, 3rd Edition **Method 6010B

Phenolics

*EPA Methods for Chemical Analysis of Water and Wastes, March 1983
**Method 420.1

Cyanide

*Test Methods for Evaluating Solid Wastes, SW846, 3rd edition **Method 9012

^{*} Indicates reference

^{**} Indicates Methods

LABORATORY CHRONICLE

CLIENT: PMK GROUP

CLIENT PROJECT: VETERANS MEMORIAL PARK

DATE RECEIVED: 8/09/02

LABORATORY PROJECT: P3702

EXTRACTION DATE: 8/14/02 SEMI-VOLATILE ORGANIC

8/14/02 PESTICIDES

8/14/02 PCBs 8/20/02 METALS 8/15/02 MERCURY

| SAMPLE DATE | ANALYSIS DATES | ANALYSIS | • |
|---|--|---|---|
| 8/09/02 8/09/02 8/09/02 8/09/02 8/09/02 8/09/02 8/09/02 | 8/19,20/02 8/20,21,22/02 8/19,20/02 8/19,20/02 8/26/02 8/16/02 8/17/02 | VOLATILE ORGANIC SEMI-VOLATILE ORGANIC PESTICIDES PCBs METALS MERCURY CYANIDE | |
| 8/09/02 | 8/20/02 | PHENOLICS | |

Revision Date: June 6, 2002 SOP ID: P201-Data Review-03.doc Effective Date: July 24, 2002 QA Control Code: A2040102 Revision ≓: 03.1

PEER REVIEW CHECKLIST FOR GCMS VOA DATA

| Fraction: VOC | Ртојест = : | P3702 | |
|--|--|-------------------------|------------------|
| QA DATA: Sample Number | s: | | |
| ITEM | | | Completed |
| *************************************** | | | **************** |
| Check instrument log for samples in batch. Highlig Make sure correct lab numbers are listed on all data. Check Chain of Custody and Login Sheet for project s Check that all manual integrations are initialed and data. | pecific informati | ion. | |
| TUNES: Check that the proper tune is included and that the app the tune. Check that the tune meets the correct criteria. Check that all samples were run within 12 hours for 83 | 90 | 18 | |
| BLANKS: Check quant report for compounds called and quantita Check if any compounds need to be flagged with a J. Check that blank meets contamination criteria. Check that appropriate lab numbers are reported on bla Check blank nontargeted results for proper cas #, reter name, concentration against spectra. Check blank chromatograms to ensure that all peaks ar Check that all compounds not called are crossed off, in reports and tics. Check that spectra are included for all compounds called | ank nontargeted on tion time, comp re accounted for, uitialed and dated | ound | |
| CALIBRATION: Check that the proper initial and continuing calibration Compare initial curves to continuing curve to make surverify dates on curves. Verify that extra compound initial and continuing curve Check that SPCCS and CCCS meet criteria on the initial Verify that a continuous calibration check is run every every 24hrs for 624 and every 8hrs for 524. Check that the criteria is met on the initial and continuing 55% RSD for initial calibration and 30% for continuing 35% RSD and for continuing for 624 use table 5. For 6 (Up to 2 compounds allowed to fail) | es are included, al and continuin 12 hrs for \$260 ang calibrations, g calibration for | g calibrations and CLP, | |
| SURROGATES: Check that surrogate recoveries are reported on approping the control of the control | ecoveries which | te sure values | |

CHEMTECH

SOP ID: P201-Data Review-03.doc

Revision #: 03.1

OA Control Code: A2040102

Revision Date: June 6, 2002 Effective Date: July 24, 2002

SPIKES: Verify that the correct spike sample is being reported for that batch. Check that the spike recoveries are reported in the appropriate form (i.e. water, soil). Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Verify spike recoveries to quantitation reports. If any values outside of QC limits exist on MS/MSD, was Blank Spike used. Verify that the blank spike meets QC requirements (70-130%). Non-conformances Comments: ITEM Completed Check quant report for targeted compounds called, verify quantitation (be sure to take moisture and dilutions into account). Verify that the largest 10 * 15 non-target peaks are called. Check to ensure that compounds which exceed the linear range have been Re-analyzed, diluted and quanted from the dilution. Check that reporting limits typical and if not (and the reason is not apparent) are footnoted. Verify reporting limits for extra compounds. Check nontargeted results for proper CAS #, concentration, retention time, compounds need to be flagged with B or J. Check that spectra are included for all compounds called. Check chromatograms to ensure that all peaks are accounted for. Check if any of the data requires a footnote. Check that the samples were run within their holding time. Non - Conformance Comments: Peer Review Signature: TECHNICAL SUPERVISOR REVIEW: Completed ITEM . Check for compliance with the Method and project specific requirements. Check the report for completeness. Check the information in the case narrative. Check the results for reasonableness. Technical Supervisor Review Signature Caroli Calling

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092 NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

| CHEMTECH PROJECT NUMBER: | P3702 | MATRIX: | Soil | | 1 |
|---|--------------------------------|--|---------------|------------------|---------|
| METHOD: 8260 | e i | | 3 | . 3 | v |
| | | × . | <u>NA</u> | NO | YES |
| 1. Chromatograms Labeled/Compounds Idea | ntified. (Field samples and M | Method Blanks) | | | 1 |
| 2. GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE A ASP CLP, CLP AND NJ) | · · · · | *** | | | /:- |
| 3. GC/MS Tuning Frequency - Performed ev for 8000 Series | very 24 hours for 600 series a | and 12 hours | | | _ |
| 4. GC/MS Calibration - Initial Calibration per continuing calibration performed within 24 h and 12 hours for 8000 series. | | | 8 | es. | |
| 5. GC/MS Calibration Requirements a. Calibration Check Compounds for 8260 a | nd CLP | | : | | |
| b. System Performance Check Compounds t | for 8260 and CLP | | | | |
| 8260 CALIBRATION CRITERIA | | | | .54 | |
| SPCC Compounds Chloromethane 0.1 1,1-Dichloroethane 0.1 | 2: | CCC Compounds 1,1-Dichloroether Chloroform | | * | |
| Bromoform 0.1 Chlorobenzene 0.3 1,1,2,2-Tetrachloroethane 0.3 | | 1,2-Dichloroprop Toluene Ethylbenzene Vinyl chloride | ane | * | 121 |
| For CCC compounds Initial Calibration Crite For CCC compounds Continuing Calibration | eria – RSD less than or equal | to 30% | | la ^{KC} | |
| 6. Blank Contamination - If yes, list compoun | nds and concentrations in eac | ch blank: | | | |
| ~ | | | 90 | | |
| 7. Surrogate Recoveries Meet Criteria | | ** | ; | | <u></u> |
| If not met, list those compounds and their rec | coveries which fall outside th | e acceptable rang | es. | | * |
| Document Control # A3050026 | Page 1 of 2 | i | | | |

CHEMTECH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012 : NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY(CONTINUED)

| 9 8 8 | | | 2 | | <u>NA</u> | NO : | YES |
|--|----------------|------------------|----------------|---------------|-----------|----------|-----|
| 8. Matrix Spike/Matrix Spike Duplicate I | Recoveries Me | et Criteria | | | | | _ |
| If not met, list those compounds and their | r recoveries w | hich fall outsi | de the accer | otable rang | re . | | |
| | 1000 (01100 11 | 1011 1011 0 0101 | and and accorp | ,140,10 14112 | ,0. | | |
| ā. | a ¥ | | | | | | |
| | | | | | | 11 | |
| 9. Internal Standard Area/Retention Time | Shift Meet C | riteria | ** | | | 6. 1 | |
| Comments: | • | | | | ż | | |
| | | | | | | 59 | |
| | | | ě | | | | |
| | | | | | | | , |
| 10. Analysis Holding Time Met | | 9 | - | | | - | |
| If not met, list number of days exceeded i | for each sampl | | | | | | |
| if not met, ast number of days exceeded i | tor each samp | | | | | | |
| | | | × (4) | - E | | | |
| , | | 197 | | | 2 | | |
| ADDITIONAL COMMENTS: | | | | | | | |
| | *, | | | | 9 | <u> </u> | |
| | | | | | | | |
| | | | | 18 | | | |
| | | - 4 | | | | U | 17 |
| 3 = | | 1 35 | . " | 154 | | | |
| <u> </u> | 24. | * | | | | | |
| | | | | O | 2.21 | .02 | |
| Analyst | | | | Date | 0 2 | | |
| | | 00 | | 7/8 | olre | 0 | |
| QA REVIEW | | | | Date | × 110c | × | |
| | 2 | 8 | | | W. | | 2: |
| 8 8 6 | | | | | | | |

Page 2 of 2

Document Control # A3050026

CIIIIIII I CII 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

| CHEMTECH PROJECT NUMBER | P370 | 2 | MATRIX:_ | Soil | à | |
|--|---------------------|------------------|------------------|---------------------|---|---|
| METHOD: 82+0 | | | | | | |
| | | | | | 4 | |
| x * | ¥. | 24 | | <u>NA</u> <u>NO</u> | YES . | ï |
| 1. Chromatograms Labeled/Compo | unds Identified. (I | Field samples a | nd Method Blank | s) | | |
| 2. GC/MS Tuning Specifications. I (NOTE THAT THERE ARE DIFF | | | P CLP, CLP AN | D NJ) | *_ <u>/</u> | |
| 3. GC/MS Tuning Frequency - Peri for 8000 Series | formed every 24 ho | ours for 600 ser | ies and 12 hours | | <u> </u> | |
| 4. GC/MS Calibration - Initial Calibration analysis and continuing calibration for 600 series and 12 hours for 800 | n performed within | | | | | |
| 5. GC/MS Calibration Requirement | cs | | 4 · 2 | | | |
| a. Calibration Check Compounds f | or 8270 and CLP | | u . | - | 1 | |
| b. System Performance Check Con | apounds for 8270 a | and CLP | W. W | | | 1 |
| 8270 CALIBRATION CRITERI | A | , X | | | | * |
| SPCC Compounds | MINRF | CCC Compou | | Acid Fraction | | |
| N-nitroso-di-n-propylamine | 0.050 | Acenaphthen | | 4-Chloro-3-met | hylphenol | |
| Hexachlorocyclopentadiene | 0.050 | 1,4-Dichlorol | | 2,4-Dichlorophe | | × |
| 2,4-Dinitrophenol | 0.050 | Hexachloroby | ıtadiene | 2-Nitrophenol | , i i i i i i i i i i i i i i i i i i i | |
| 4-Nitrophenol | 0.050 | Diphenylamin | ne . | Phenol | | |
| | | Di-n-octyl ph | | Pentachloropher | | |
| | | Fluoranthene | * | 2,4,6-Trichlorog | phenol * | |
| a 2 - | | Benzo(a)pyre | ne | in it. | | |
| For CCC compounds Initial Calibra For CCC compounds Continuing Co | | | | | | |
| | | ¥ | * | | 4 | |
| 6. Blank Contamination - If yes, list | compounds and c | oncentrations L | a ∈ach blank: | | | |
| a. B/N Fraction Bisc | 2-ethylhe | eyl) pht | halde P | resert at | 2.87 ng/er | 1 |
| b. Acid Fraction Concen | hation | en B | DO0187 | ₹.D | | |
| , - | | a | | | 444 | |
| · · | κ. | - 4 | 16 | 154 | * | |

Document Control # A3040025

CHEIVIIE LH 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012: NEW YORK LAB ID#: 11376

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

| | NA | NO | YES |
|--|---------------|----|------|
| 7. Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the accep | table ranges. | | |
| a. B/N Fraction See Summary Joseph | S | | |
| b. Acid Fraction | | | |
| 8. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria | | | |
| If not met, list those compounds and their recoveries which fall outside the accep | table range. | | |
| a. B/N Fraction See Summary John # | .3 | 1 | 47 |
| b. Acid Fraction | | | |
| 9. Internal Standard Area/Retention Time Shift Meet Criteria | | | |
| Comments: See Summary John #8 | | 4 | |
| Renun a dilution reported | ſ | | |
| 10. Extraction Holding Time Met | × , Y | | 1 |
| If not met, list number of days exceeded for each sample: | , , | ٠. | |
| | | | |
| 11. Analysis Holding Time Met | | | |
| If not met, list number of days exceeded for each sample: | | *, | |
| Light 1997 | | | |
| | Fav | · | 4 |
| ADDITIONAL COMMENTS: | | |)(4) |
| | 8 | ¥. | |
| | | | |
| | 8 g | | |
| Nine_ | 8/23/07 | | |
| Analyst Date | 5 | | |
| 2 rate Callins | solre | | |
| QA REVIEW Date | | R | |
| | | | |

Document Control # A3040025

Page 2 of 2

| CH | IEMTECH | REVISION # 1.0 |
|------|--|----------------|
| | ID; CKLST-SEMI-VOA-REV | Page 1 of 2 |
| DOC | . CONTROL #: CKLST-SEMI-VOA-REV -1.0 | Date: 04/28/00 |
| | PEER REVIEW CHECKLIST FOR GCMS SEMI-VOA DATA | 1 |
| | Fraction: 8194 Project #: \$2701 | |
| | Fraction: 8Voc Project #: \$2702 | |
| | 1-10 | |
| | Sample Numbers: -10 | 1.00 |
| | QA DATA: | |
| | TOTAL C | G |
| | ITEM | Completed |
| | Chalaintenant and Communication of the Communicatio | |
| | Check instrument log for samples in batch. Highlights. | |
| | Make sure correct lab numbers are listed on all data. | |
| | Check Chain of Custody and Login Sheet for project specific information. | |
| 4.1 | Check that all manual integrations are initialed and dated. | |
| | TINEC | * |
| | TUNES: | 37/ |
| | Check that the proper tune is included and that the appropriate lab #s are listed on | |
| | the tune. | |
| | Check that the tune meets the correct criteria. | |
| | Check that all samples were run within 12 hours for 8270 and CLP, 24 hours for 625. | |
| | DI LATER | 10.75 |
| * 14 | BLANKS: | |
| | Check quant report for compounds called and quantitation. | |
| | Check if any compounds need to be flagged with a J. | |
| | Check that blank meets contamination criteria. | |
| | Check blank nontargeted results for proper CAS #, retention time, compound | |
| | name, mw, concentration against spectra. | |
| | Check blank chromatograms to ensure that all peaks are accounted for. | |
| | Check that all compounds not called are crossed off, initialed and dated on quantitation | |
| | reports and tics. | |
| | Check that spectra are included for all compounds called. | |
| | | |
| | CALIBRATION: | 9 6 |
| | Check that the proper initial and continuing calibration forms are included. | |
| | Compare initial curves to continuing curve to make sure correct curves are included. | |
| | Verify dates on curves. | |
| | Verify that extra compound initial and continuing curves are included. | |
| | Check that SPCCS and CCCS meet criteria on the initial and continuing calibrations. | |
| | | |
| | SURROGATES: | 7 |
| | Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge). | |
| | Check that surrogate recoveries meet QC limits. Make sure values outside of limits | |
| | are flagged and tallied. | |
| | Check that appropriate action was taken for surrogate recoveries which did not meet | 9 |
| | QC criteria (samples are re-extracted and re-analyzed to prove matrix interference). | |
| | Verify surrogates reported to the quantitation reports. | |
| | | |
| | SPIKES: | * |
| | Verify that the correct spike sample is being reported for that batch. | |
| | Check that the spike recoveries are reported in the appropriate form (i.e. water, | |
| | soil). | |
| | Check that spike recoveries meet QC limits. Make sure values outside of limits are | |
| | flagged and tallied. | / |
| | Verify spike recoveries to quantitation reports. | |
| × | If any values outside of QC limits exist on MS/MSD, was Blank Spike used. | |
| | The second secon | |
| | Non-conformances / Comments: | £ * |
| | | |

CHEMTECH

SOP ID: CKLST-SEMI-VOA-REV
DOC. CONTROL #: CKLST-SEMI-VOA-REV -1.0

REVISION # 1.0 Page 2 of 2 Ďate: 04/28/00

SAMPLES:

| ITEM | in Trans | - · | | Completed |
|---|--------------------------------|-------------------------|---------------|---|
| Check that all manual integra | stions are initialed and d | lated. | | |
| Check quant report for target (be sure to take moisture and | | | antitation | |
| Verify that the appropriate nu | ımber and largest non-ta | arget peaks are called. | | |
| Check to ensure that compoure-analyzed, and quanted from | | near range have been | diluted , | |
| Charle that are arised limited and | / II | | . 6 | *: |
| Check that reporting limits ar | e typicai and it not (reas | son is not apparent) ai | re tootnoted. | |
| Verify reporting limits for ex | tra compounds. | | | |
| | - R | 14 | | |
| Check nontargeted results for to be flagged with B or J. | proper concentration, (| CAS #, retention time; | compounds ne | ed |
| Check that spectra are include | ed for all compounds ca | lled | a | |
| Check chromatograms to ensu | ire that all peaks are acc | counted for. | | |
| Check if any of the data requi | res a footnote. |)) B | ik. | |
| Check that the samples were r | un / extracted within the | eir holding time. | ä | |
| Non - Conformance / Comme | ents: | | | |
| | | * | 80 | n |
| Peer Review Signature: | Kupa | 3 | Date:_ | 8/26/02 |
| | | | 3 | , i i |
| ITEM | TECHNICAL SUI | PERVISOR REVIE | <u>W:</u> | Completed |
| Check for compliance with Check the report for comple Check the information in th Check the results for reason | eteness. ne case narrative. | ect specific requirer | nents. | \frac{\frac{1}{\finn}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}} |
| Technical Supervisor Revie | w Signature: CQA | ale Callen | Date: | colreli |

CHEMTECH 284 Sheffield Street. Mountainside New Jersey 07092

NEW JERSEY LAB ID#:20012 : NEW YORK LAB ID#: 11376

GC ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY

| - C | CHEMTECH PROJECT LAB NUMBER: P3707 MATRIX: SOTAR METHOD: 8081 | _ |
|-----|--|----|
| | YES NA | NO |
| 1. | . Chromatograms Labeled/Compounds Identified. | |
| 2. | . Standards Summary Submitted | |
| 3. | Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis, 12 HOURS IF 8000 SERIES METHOD | |
| 4. | Blank Contamination - If yes, list compounds and concentrations in each blank: | |
| | | |
| 5. | Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | |
| | | |
| | | |
| 6. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable range. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria. If not met, list those compounds and their recoveries which fall outside the acceptable range. | _ |
| - | marin on of our | |
| 7. | Retention Time Shift Meet Criteria (if applicable) | 0 |
| 8. | Extraction Holding Time Met If not met, list number of days exceeded for each sample. | |
| - | | |
| 9 | Analysis Holding Time Met If not met, list those compounds and their recoveries which fall outside the acceptable range. | |
| Adi | ditional Comments: | |
| | | |
| Ana | alyst Aug 20 202 | |
| QA | REVIEW Date Page 1 of 1 | |

SOP ID: P201-Data Review-03.doc

Revision #: 03.1

QA Control Code: A2040102

Revision Date: June 6, 2002 Effective Date: July 24, 2002

PEER REVIEW CHECKLIST FOR GC DATA Project #: Fraction: Sample Numbers: QA DATA: ITEM Completed Check instrument log for samples in batch. Highlights. Make sure correct lab numbers are listed on all data. Check Chain Custody and Login Sheer for project specific information. Check that all manual integrations are initialed and dated. Verify that the retention time of every peak of interest meet the criteria for window (RT +3 times the standard deviation of the mean absolute value or default to 0.03 minutes.) BLANKS: Check quant report for compounds called and quantitation. Check if any compounds need to be flagged with a J. Check that blank meets contamination criteria. Check blank chromatograms to ensure that all peaks are accounted for. Check that all compounds not called are crossed off, initialed and dated on quantitation CALIBRATION: Check that the proper initial and continuing calibration forms are included. Compare initial curves to continuing curve to make sure correct curves are included. Verify dates on curves. Verify that extra compound initial calibration and continuing are included. Verify that a continuous calibration check is run every 12 hrs for 8000 series and CLP and every 24hrs for 600 series Check that the criteria is met on the initial and continuing calibrations. 20% RSD for initial calibration and 15% for continuing calibration for 8000 series, 25% for CLP and 10% RSD and Table on SOP for continuing for 600 series Verify a closing check is analyzed for each analytical sequence Verify that the concentration of the CCC is varied SURROGATES: Check that surrogate recoveries are reported on appropriate form (i.e. water, soil, sludge). Check that surrogate recoveries meet QC limits listed on the form. Make sure values outside of limits are flagged and tallied. Check that appropriate action was taken for surrogate recoveries which did not meet QC criteria (samples are re-analyzed to prove matrix interference). Verify surrogates reported to the quantitation reports. SPIKES: Check that appropriate sample is on the spike recovery form. Verify that the correct spike sample is being reported for that batch. Check that the spike recoveries are reported on the appropriate form (i.e. water, soil). Check that spike recoveries meet QC limits. Make sure values outside of limits are flagged and tallied. Verify spike recoveries to quantitation reports. Verify that a blank spike was analyzed for each batch of 20 samples. Verify that the blank spike meets QC requirements (70-130%). If any values outside of QC limits exist on MS/MSD, was Blank Spike used?

CHEMTECH

SOP ID: P201-Data Review-03.doc

Revision #: 03.1

QA Control Code: A2040102

Revision Date: June 6, 2002 Effective Date: July 24, 2002

Non-conformances / Comments: SAMPLES: ITEM Completed Check that all manual integrations are initialed, dated and justified. Check that the correct sample matrix and units are on the result form. Check quant report for targeted compounds called and verify quantitation (be sure to take moisture and dilutions into account). Check to ensure that compounds which exceeds the linear range have been, diluted, re-analyzed, and quanted from the dilution. Check that reporting limits are typical and if not (reason is not apparent) are foomoted. Verify reporting limits for extra compounds. Check chromatograms to ensure that all peaks are accounted for. Check if any of the data requires a footnote. Check that the samples were analyzed / extracted within their holding time. Non - Conformance / Comments: Peer Review Signature: TECHNICAL SUPERVISOR REVIEW: ITEM Completed Check for compliance with the Method and project specific requirements. Check the report for completeness. Check the information in the case narrative. Check the results for reasonableness.

Technical Supervisor Review Signature: Canal Callins

SVOC-PP BNA

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-03

8/9/02

Date Collected: Date Analyzed:

8/20/02

Date Extracted:

8/14/02

Dilution:

Analytical Method:

Sample Wt/Wol: Injection Vol:

Associated Blank:

8270

30.3

PB081402-08B

Client ID:

TP-34

Date Received:

8/9/02 SOIL

Matrix: File ID:

BD001859.D

5971D

Instrument ID: Analytical Run ID:

Extract Vol: % Moisture:

| Prameter | Concentration | C | I | RDL | | MDL | | Units | | . * |
|----------------------------|---------------|----|----|-------|-----|-------|----|-------|-----|-----|
| TARGETS | | | | | | | | | | |
| Nitrosodimethylamine | < 38 | U | | 380 | | 38 | | ug/Kg | · | |
| I enol | < 38 | U | * | 380 | i. | 38 | | ug/Kg | | 89 |
| bis(2-Chloroethyl)ether | < 46 | Ų | *: | 380 | 24 | 46 | | ug/Kg | | |
| Chlorophenol | < 42 | U | | 380 | | 42 | | ug/Kg | | |
| 1 -Dichlorobenzene | < 38 | Ų | | 380 | | 38 | | ug/Kg | | |
| 1,3-Dichlorobenzene | < 46 | U | | 380 | | 46 | | ug/Kg | | |
| -Dichlorobenzene | < 38 | U | | 380 | | 38 | | ug/Kg | | |
| Eunzyl Alcohol | < 38 | U, | | 380 | | 38 | | ug/Kg | | |
| 2-Methylphenol | < 38 | U | | 380 | | 38 | | ug/Kg | | |
| -oxybis(1-chloropropane) | < 38 | U | | 380 | | 38 | | ug/Kg | | |
| 3+4-Methylphenols | < 69 | U | | 380 | | 69 | | ug/Kg | | |
| N-Nitroso-di-n-propylamine | < 38 | U | | 380 | ÷ | 38 | | ug/Kg | | |
| xachloroethane | < 42 | U | | 380 | | 42 | | ug/Kg | | 9 |
| Vitrobenzene | < 38 | U | | 380 | | 38 | | ug/Kg | | |
| Sophorone | < 38 | U | 9 | 380 | | 38 | | ug/Kg | | |
| Vitrophenol | < 42 | U | | 380 | | 42 | | ug/Kg | | |
| 2,4-Dimethylphenol | < 88 | U | | 380 | | 88 | | ug/Kg | | |
| (2-Chloroethoxy)methane | < 38 | U | De | 380 | | 38 | | ug/Kg | • 2 | k). |
| -Dichlorophenol | < 50 | U | | 380 | | 50 | | ug/Kg | | |
| ,2,4-Trichlorobenzene | < 46 | U | | 380 | | 46 | | ug/Kg | | |
| phthalene | < 46 | U | | 380 | | 46 | * | ug/Kg | | |
| Chloroaniline | < 46 | U | | 380 | | 46 | | ug/Kg | | |
| Texachlorobutadiene | < 58 | U | | 380 | | 58 | | ug/Kg | | |
| hloro-3-methylphenol | < 42 | ·U | | 380 | | 42 | | ug/Kg | | |
| rexachlorocyclopentadiene | < 150 | U | | 380 | | 150 | | ug/Kg | | |
| .4,6-Trichlorophenol | < 38 | U | | 380 - | | 38 | | ug/Kg | | |
| ,5-Trichlorophenol | < 38 | U | | 970 | | 38 | 50 | ug/Kg | | |
| -Chloronaphthalene | < 46 | U | | 380 | | 46. | | ug/Kg | | |
| imethylphthalate | < 38 | U | | 380 | (*) | 38 | | ug/Kg | | |
| naphthylene | < 46 | U | | 380 | | 46 | | ug/Kg | | |
| ,6-Dinitrotoluene | < 38 | U | | 380 | | 38 | | ug/Kg | |),* |
| | | | | | | w - 2 | | | | |

Themtech Consulting Group

SVOC-PP BNA

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-03

8/9/02

Date Collected: Date Analyzed: Date Extracted:

8/20/02 8/14/02

Dilution:

Analytical Method: Sample Wt/Wol:

Injection Vol:

Associated Blank:

8270 30.3 2

PB081402-08B

Client ID:

Date Received:

Matrix:

8/9/02 SOIL

TP-34

File ID:

BD001859.D

Instrument ID:

5971D Analytical Run ID:

Extract Vol: % Moisture:

| 4 = | |
|-----|--|
| 1 | |
| 1.0 | |
| | |

| r rameter | Concentration | C | RDL | MDL | Units | | |
|----------------------------|---------------|-----|-----|-----|-------|-----|----|
| TARGETS | | | | | | - | |
| Acenaphthene | < 46 | U · | 380 | 46 | ug/Kg | | |
| 2 Dinitrophenol | < 77 | U | 970 | 77 | ug/Kg | | |
| 4-Nitrophenol | < 42 | U | 970 | 42 | ug/Kg | 5.0 | 12 |
| 7 '-Dinitrotoluene | < 42 | Ü | 380 | 42 | ug/Kg | | |
| f ethylphthalate | < 38 | U | 380 | 38 | ug/Kg | *. | * |
| 4-Chlorophenyl-phenylether | < 46 | U | 380 | 46 | ug/Kg | | |
| orene | < 42 | U | 380 | 42 | ug/Kg | | |
| . J-Dinitro-2-methylphenol | < 46 | U | 970 | 46 | ug/Kg | | |
| N-Nitrosodiphenylamine | < 77 | U | 380 | 77 | ug/Kg | | |
| obenzene | < 42 | U | 380 | 42 | ug/Kg | | |
| -Bromophenyl-phenylether | < 50 | U | 380 | 50 | ug/Kg | | |
| Hexachlorobenzene | < 42 | U | 380 | 42 | ug/Kg | | Ġ. |
| atachlorophenol | < 73 | U | 970 | 73 | ug/Kg | | |
| Phenanthrene | 48 | J | 380 | 38 | ug/Kg | | |
| hthracene | < 50 | U | 380 | 50 | ug/Kg | | * |
| n-butylphthalate | < 46 | U | 380 | 46 | ug/Kg | | |
| luoranthene | 110 | J | 380 | 38 | ug/Kg | | |
| azidine | < 42 | U - | 380 | 42 | ug/Kg | | |
| -ene | 140 | J | 380 | 38 | ug/Kg | | |
| Butylbenzylphthalate | < 38 | U | 380 | 38 | ug/Kg | | |
| | < 38 | U | 380 | 38 | ug/Kg | | |
| izo(a)anthracene | 69 | J | 380 | 38 | ug/Kg | | |
| Chrysene | 71 | J · | 380 | 62 | ug/Kg | | 18 |
| (2-Ethylhexyl)phthalate | 190 | JВ | 380 | 38 | ug/Kg | | |
| n-octyl phthalate | < 58 | U | 380 | 58 | ug/Kg | | |
| Benzo(b)fluoranthene | 61 | J | 380 | 38 | ug/Kg | | |
| ızo(k)fluoranthene | 100 | J | 380 | 100 | ug/Kg | | |
| lenzo(a)pyrene | 75 | J | 380 | 58. | ug/Kg | | |
| adeno(1,2,3-cd)pyrene | < 62 | U | 380 | 62 | ug/Kg | | |
| enz(a,h)anthracene | < 58 | U | 380 | 58 | ug/Kg | | |
| lenzo(g,h,i)perylene | 50 | U | 380 | 50 | ug/Kg | | |

Themtech Consulting Group

SVOC-PP BNA

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-03

TP-34

Date Collected:

8/9/02

Date Analyzed:

8/20/02

Date Extracted: 8/14/02 Dilution:

Analytical Method:

8270

Sample Wt/Wol: Injection Vol:

30.3

Associated Blank:

2

PB081402-08B

Client ID:

Date Received:

Matrix:

8/9/02 SOIL

File ID:

BD001859.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

1000

% Moisture:

| Parameter | Concentration | C | RDL | MDL | Units | |
|-----------------------------------|---------------|-------|----------|-----|----------|---|
| SURROGATES | | | | | | |
| ? Fluorophenol | 256.17 | 85 % | 25 - 121 | | SPK: 300 | j |
| I enol-d5 | 228.78 | 76 % | 24 - 113 | | SPK: 300 | |
| Nitrobenzene-d5 | 151.77 | 76 % | 23 - 120 | 2. | ŞPK: 200 | |
| ? Iuorobiphenyl | 161.38 | 81 % | 30 - 115 | | SPK: 200 | |
| 7,6-Tribromophenol | 285.01 | 95 % | 19 - 122 | | SPK: 300 | |
| Terphenyl-d14 | 283.69 | 142 % | 18 - 137 | | SPK: 200 | , |
| TERNAL STANDARDS | | | | | 95 | |
| l,4-Dichlorobenzene-d4 | 41121 | 5.58 | 2 | | | |
| : phthalene-d8 | 121947 | 8.02 | | | | |
| enaphthene-d10 | 88252 | 11.72 | | | * | |
| Phenanthrene-d10 | 131028 | 14.90 | | | | |
| rysene-d12 | 78939 | 20.69 | | | | |
| ylene-d12 | 63402 | 23.63 | | | | |
| CENTITIVE IDENTIFIED COM | POUNDS | | | | | |
| P | 7400 | A | 3.35 | | ug/Kg | |
| Texadecanoic acid | 370 | JВ | 16.40 | | ug/Kg | |
| phthalene, 1,2,3,5,6,7,8,8a-octah | 780 | J | 25.49 | | ug/Kg | |

SVOC-PP BNA

P3702-01 SDG No.:

Client: PMK Group

Sample ID:

P3702-04

Client ID: TP-6D

Date Collected:

8/9/02

Date Analyzed:

8/20/02 8/14/02

Date Extracted: Dilution:

Analytical Method:

8270

Sample Wt/Wol: Injection Vol:

2

Associated Blank:

30.2

PB081402-08B

Date Received:

8/9/02

Matrix: File ID: SOIL BD001861.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol: % Moisture:

1000

| ~ 'rameter | Concentration | C | RDL | MDL | Units | | |
|-----------------------------|---------------|---|------|-----|-------|-----|-----|
| TARGETS | | | | | | | |
| Nitrosodimethylamine | < 44 | U | 440 | 44 | ug/Kg | | |
| ! enol | < 44 | U | 440 | 44 | ug/Kg | | |
| bis(2-Chloroethyl)ether | < 53 | Ų | 440 | 53 | ug/Kg | | |
| Chlorophenol | < 49 | U | 440 | 49 | ug/Kg | | £ * |
| _,Dichlorobenzene | < 44 | U | 440 | 44 | ug/Kg | | |
| 1,3-Dichlorobenzene | < 53 | U | 440 | 53 | ug/Kg | | |
| - Dichlorobenzene | < 44 | U | 440 | 44 | ug/Kg | | |
| Benzyl Alcohol | < 44 | U | 440 | 44 | ug/Kg | | |
| 2-Methylphenol | < 44 | U | 440 | 44 | ug/Kg | | |
| ! '-oxybis(1-chloropropane) | < 44 | U | 440 | 44 | ug/Kg | F | 3.5 |
| 3+4-Methylphenols | < 80 | U | 440 | 80 | ug/Kg | | 9 |
| M-Nitroso-di-n-propylamine | < 44 | U | 440 | 44 | ug/Kg | | |
| xachloroethane | < 49 | U | 440 | 49 | ug/Kg | | |
| Nitrobenzene | < 44 | U | 440 | 44 | ug/Kg | | |
| phorone | < 44 | U | 440 | 44 | ug/Kg | | |
| Nitrophenol | < 49 | U | 440 | 49 | ug/Kg | | |
| 2,4-Dimethylphenol | < 100 | U | 440 | 100 | ug/Kg | | |
| (2-Chloroethoxy)methane | < 44 | U | 440 | 44 | ug/Kg | 1 2 | |
| -Dichlorophenol | < 58 | U | 440 | 58 | ug/Kg | | |
| ,2,4-Trichlorobenzene | < 53 | U | 440 | 53 | ug/Kg | | * |
| hthalene | < 53 | U | 440 | 53 | ug/Kg | | |
| Chloroaniline | < 53 | U | 440 | 53 | ug/Kg | 70 | |
| Iexachlorobutadiene | < 66 | U | 440 | 66 | ug/Kg | | |
| : Chloro-3-methylphenol | < 49 | U | 440 | 49 | ug/Kg | | |
| iexachlorocyclopentadiene | < 170 | U | 440 | 170 | ug/Kg | | |
| 4,6-Trichlorophenol | < 44 | U | 440 | 44 | ug/Kg | | |
| ,5-Trichlorophenol | < 44 | U | 1100 | 44 | ug/Kg | | |
| -Chloronaphthalene | < 53 | U | 440 | 53- | ug/Kg | | |
| `methylphthalate | < 44 | U | 440 | 44 | ug/Kg | | |
| enaphthylene | < 53 | U | 440 | 53 | ug/Kg | | |
| ,6-Dinitrotoluene | < 44 | U | 440 | 44 | ug/Kg | | |

SVOC-PP BNA

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-04

8/9/02

Date Collected: Date Analyzed:

8/20/02

Date Extracted: 8/14/02 Dilution:

Analytical Method: Sample Wt/Wol:

8270

Injection Vol:

30.2

Associated Blank:

PB081402-08B

Client ID:

TP-6D

Date Received:

8/9/02

Matrix:

SOIL

File ID: Instrument ID: BD001861.D 5971D

Analytical Run ID:

1000

Extract Vol: % Moisture:

| rameter | Concentration | C | RDL | MDL | Units | * | 17 |
|----------------------------|---------------|----|------|-----|-------|----|----|
| TARGETS | | _ | | 34 | 1 | | |
| Agenaphthene | < 53 | U | 440 | 53 | ug/Kg | | |
| 4-Dinitrophenol | < 89 | U | 1100 | 89 | ug/Kg | ** | |
| 4-Nitrophenol | < 49 | Ų | 1100 | 49 | ug/Kg | | |
| 1-Dinitrotoluene | < 49 | U | 440 | 49 | ug/Kg | | - |
| ethylphthalate | < 44 | U | 440 | 44 | ug/Kg | | |
| 4-Chlorophenyl-phenylether | < 53 | U | 440 | 53 | ug/Kg | | |
| uorene | < 49 | U | 440 | 49 | ug/Kg | | |
| ,5-Dinitro-2-methylphenol | < 53 | U | 1100 | 53 | ug/Kg | | |
| N-Nitrosodiphenylamine | < 89 | U | 440 | 89 | ug/Kg | | |
| zobenzene | < 48 | U | 440 | 48 | ug/Kg | 6 | |
| +-Bromophenyl-phenylether | < 58 | U | 440 | 58 | ug/Kg | | |
| Hexachlorobenzene | < 49 | U | 440 | 49 | ug/Kg | | |
| ntachlorophenol | < 84 | U | 1100 | 84 | ug/Kg | | |
| Phenanthrene | 150 | J | 440 | 44 | ug/Kg | | |
| Anthracene | < 58 | U | 440 | 58 | ug/Kg | | * |
| -n-butylphthalate | < 53 | U. | 440 | 53 | ug/Kg | | |
| Fluoranthene | 290 | J | 440 | 44 | ug/Kg | | |
| nzidine | < 48 | U | 440 | 48 | ug/Kg | | |
| rene | 350 | J | 440 | 44 | ug/Kg | | |
| Butylbenzylphthalate | < 44 | U | 440 | 44 | ug/Kg | | |
| '-Dichlorobenzidine | < 44 | U | 440 | 44 | ug/Kg | | 3 |
| enzo(a)anthracene | 140 | J | 440 | 44 | ug/Kg | | |
| Chrysene | 190 | J | 440 | 71 | ug/Kg | | |
| (2-Ethylhexyl)phthalate | 82 | JВ | 440 | 44 | ug/Kg | | |
| i-n-octyl phthalate | < 66 | U | 440 | 66 | ug/Kg | | 4 |
| 3enzo(b)fluoranthene | 140 | J | 440 | 44 | ug/Kg | | |
| nzo(k)fluoranthene | 140 | J | 440 | 120 | ug/Kg | | × |
| Senzo(a)pyrene | 210 | J | 440 | 66. | ug/Kg | | |
| ndeno(1,2,3-cd)pyrene | < 71 | U | 440 | 71 | ug/Kg | | |
| benz(a,h)anthracene | < 66 | U | 440 | 66 | ug/Kg | | |
| Benzo(g,h,i)perylene | 98 | J | 440 | 58 | ug/Kg | | |

Themtech Consulting Group

SVOC-PP BNA

SDG No.: P3702-01

PMK Group Client:

Sample ID: P3702-04

Date Collected: 8/9/02

8/20/02

Date Analyzed: Date Extracted: 8/14/02

Dilution:

Analytical Method: 8270 Sample Wt/Wol:

30.2

Injection Vol: Associated Blank:

PB081402-08B

Client ID:

TP-6D

Date Received:

8/9/02

Matrix: File ID: SOIL BD001861.D

Instrument ID:

5971D

Analytical Run ID:

Extract Vol: % Moisture:

| Firameter | Concentration | C | RDL | MDL | Units | | 4 |
|--------------------------|---------------|-------|----------|-----|----------|---|---------------------------------------|
| SURROGATES | | | | 2.7 | | | 1 |
| Fluorophenol | 296.06 | 99 % | 25 - 121 | | SPK: 300 | | lk. |
| enol-d5 | 240.88 | 80 % | 24 - 113 | | SPK: 300 | | |
| Nitrobenzene-d5 | 158.91 | 79 % | 23 - 120 | | SPK: 200 | | |
| Fluorobiphenyl | 179.09 | 90 % | 30 - 115 | | SPK: 200 | | v. |
| 1,6-Tribromophenol | 287.47 | 96 % | 19 - 122 | | SPK: 300 | | |
| Terphenyl-d14 | 290.26 | 145 % | 18 - 137 | | SPK: 200 | | |
| TERNAL STANDARDS | | | | | | | · · · · · · · · · · · · · · · · · · · |
| 1,4-Dichlorobenzene-d4 | 41415 | 5.57 | | 84 | | | |
| I phthalene-d8 | 121437 | 8.02 | Ye." | | | | |
| enaphthene-d10 | 86303 | 11.71 | 8 | | | * | |
| Phenanthrene-d10 | 132300 | 14.89 | | | V | | |
| rysene-d12 | 79449 | 20.69 | | | | | |
| Lylene-d12 | 53219 | 23.63 | | | | | |
| TENTITIVE IDENTIFIED CON | POUNDS | | - 10 | | | | |
| € CP | 8600 | A | 3.35 | | ug/Kg | | . A |
| Hexadecanoic acid | 450 |)B | 16.40 | | ug/Kg | | |

SVOC-PP BNA

SDG No.: P3702-01

PMK Group Client:

Sample ID:

P3702-05

Date Collected: 8/9/02

Date Analyzed:

8/21/02 Date Extracted: 8/14/02

Dilution:

Analytical Method: Sample Wt/Wol:

8270 30.1

Injection Vol:

Associated Blank:

2

PB081402-08B

Client ID:

Date Received:

Matrix:

8/9/02 SOIL

TP-6

File ID:

BD001862.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

1000

% Moisture:

| Porameter | Concentration | C | RDL | MDL | Units | | | |
|--------------------------|---------------------------------------|-------------|----------|-----|----------|---|----|---|
| SURROGATES | · · · · · · · · · · · · · · · · · · · | | | 100 | | | | |
| ्रिसीuorophenol | 293.22 | 98 % | 25 - 121 | | SPK: 300 | e | 5 | |
| enol-d5 | 257.44 | 86 % | 24 - 113 | | SPK: 300 | | | |
| Nitrobenzene-d5 | 178.64 | 89 % | 23 - 120 | | SPK: 200 | | | |
| Iluorobiphenyl | 184.61 | 92 % | 30 - 115 | | SPK: 200 | | | |
| .,6-Tribromophenol | 308.26 | 103 % | 19 - 122 | | SPK: 300 | | | |
| Terphenyl-d14 | 290.64 | 145 % | 18 - 137 | | SPK: 200 | | | |
| TERNAL STANDARDS | | | | | | | | |
| 1,4-Dichlorobenzene-d4 | 42489 | 5.57 | | | 9 9 | 2 | | |
| phthalene-d8 | 121018 | 8.02 | | * | | | | |
| enaphthene-d10 | 89430 | 11.71 | | | | | | € |
| Phenanthrene-d10 | 136518 | 14.89 | | | | | g. | |
| : rysene-d12 | 77021 | 20.68 | | | - 1 | | | * |
| ylene-d12 | 37648 | 23.65 | | | | * | | |
| FENTITIVE IDENTIFIED COM | POUNDS | | | | 19.0 | | | |
| P | 7800 | A | 3.35 | | ug/Kg | | | |
| Hexadecanoic acid | 420 | JВ | 16.40 | | ug/Kg | | | |

P3702-01 SDG No.:

PMK Group Client:

Sample ID:

P3702-06

TP-4

Date Collected:

8/9/02

Date Analyzed:

8/21/02 8/14/02

Date Extracted: Dilution:

Analytical Method: Sample Wt/Wol:

8270 30.0

Injection Vol: Associated Blank:

PB081402-08B

Client ID:

Date Received:

8/9/02

Matrix: File ID:

SOIL

BD001863.D

Instrument ID: Analytical Run ID:

5971D

Extract Vol:

1000

% Moisture:

| rameter | Concentration | C | RDL | MDL | Units | <u> </u> |
|-----------------------------|---|---|------|------|-------|----------|
| TARGETS | *************************************** | | | | | |
| Nitrosodimethylamine | < 43 | U | 430 | 43 | ug/Kg | |
| enol | < 43 | U | 430 | 43 | ug/Kg | |
| bis(2-Chloroethyl)ether | < 52 | Ų | 430 | 52 | ug/Kg | a a |
| Chlorophenol | < 48 | U | 430 | 48 | ug/Kg | |
| 1,2-Dichlorobenzene | < 43 | U | 430 | 43 | ug/Kg | 15 |
| 1,3-Dichlorobenzene | < 52 | U | 430 | 52 | ug/Kg | |
| l-Dichlorobenzene | < 43 | U | 430 | 43 | ug/Kg | |
| Benzyl Alcohol | < 43 | U | 430 | 43 | ug/Kg | |
| ? Methylphenol | < 43 | U | 430 | 43 | ug/Kg | |
| '.'-oxybis(1-chloropropane) | < 43 | U | 430 | 43 | ug/Kg | |
| 3+4-Methylphenols | < 78 | U | 430 | 78 | ug/Kg | |
| !! Nitroso-di-n-propylamine | < 43 | U | 430 | 43 | ug/Kg | v . |
| xachloroethane | < 48 | U | 430 | 48 | ug/Kg | |
| Nitrobenzene | < 43 | U | 430 | 43 | ug/Kg | |
| phorone | < 43 | U | 430 | 43 | ug/Kg | |
| Vitrophenol | < 48 | U | 430 | 48 | ug/Kg | |
| 2,4-Dimethylphenol | < 100 | U | 430 | 100 | ug/Kg | 2 |
| (2-Chloroethoxy)methane | < 43 | U | 430 | 43 | ug/Kg | |
| , -Dichlorophenol | < 56 | U | 430 | 56 | ug/Kg | |
| ,2,4-Trichlorobenzene | < 52 | U | 430 | 52 | ug/Kg | |
| phthalene | < 52 | U | 430 | 52 | ug/Kg | |
| Chloroaniline | < 52 | U | 430 | 52 | ug/Kg | |
| Iexachlorobutadiene | < 65 | U | 430 | 65 | ug/Kg | |
| hloro-3-methylphenol | < 48 | U | 430 | 48 | ug/Kg | |
| Texachlorocyclopentadiene | < 160 | U | 430 | 160 | ug/Kg | |
| 4,6-Trichlorophenol | < 43 | U | 430 | 43 | ug/Kg | |
| ,5-Trichlorophenol | < 43 | U | 1100 | 43 | ug/Kg | |
| -Chloronaphthalene | < 52 | U | 430 | 52 | ug/Kg | |
| nethylphthalate | < 43 | U | 430 | 43 - | ug/Kg | |
| naphthylene | 120 | J | 430 | 52 | ug/Kg | |
| ,6-Dinitrotoluene | < 43 | U | 430 | 43 | ug/Kg | |

SDG No.: P3702-01

PMK Group Client:

Sample ID: P3702-06

Date Collected: 8/9/02

Date Analyzed: 8/21/02 8/14/02 Date Extracted:

Dilution:

Analytical Method: 8270

Sample Wt/Wol: 30.0 Injection Vol: 2

Associated Blank:

PB081402-08B

Client ID:

TP-4

Date Received: 8/9/02 Matrix: SOIL

File ID: BD001863.D

5971D Instrument ID:

Analytical Run ID:

Extract Vol: 1000 % Moisture:

| [rameter | Concentration | C | RDL | MDL | Units | | |
|----------------------------|---------------|----|-------|-----|-------|-----|----|
| TARGETS | | | | | | | |
| <u>Cenaphthene</u> | < 52 | U | 430 | 52 | ug/Kg | | |
| -Dinitrophenol | < 87 | U | 1100 | 87 | ug/Kg | | |
| 1-Nitrophenol | < 48 | Ų | 1100 | 48 | ug/Kg | | |
| -Dinitrotoluene | < 48 | U | 430 | 48 | ug/Kg | | |
| thylphthalate | < 43 | U | 430 | 43 | ug/Kg | | |
| 1-Chlorophenyl-phenylether | < 52 | U | 430 | 52 | ug/Kg | w. | |
| lorene | < 48 | U | 430 | 48 | ug/Kg | * | |
| , o-Dinitro-2-methylphenol | < 52 | U | 1100 | 52 | ug/Kg | | |
| Y-Nitrosodiphenylamine | < 87 | U | 430 | 87 | ug/Kg | | |
| obenzene | < 47 | U | 430 | 47 | ug/Kg | | |
| l-Bromophenyl-phenylether | < 56 | U | 430 | 56 | ug/Kg | | |
| Texachlorobenzene | < 48 | U | 430 | 48 | ug/Kg | 9 | |
| itachlorophenol | < 82 | U | .1100 | 82 | ug/Kg | | |
| henanthrene | 360 | J | 430 | 43 | ug/Kg | | |
| thracene | 130 | J | 430 | 56 | ug/Kg | | |
| n-butylphthalate | 140 | J | 430 | 52 | ug/Kg | | |
| luoranthene | 970 | | 430 | 43 | ug/Kg | Ti- | |
| izidine | < 47 | U | 430 | 47 | ug/Kg | | |
| ene | 1200 | | 430 | 43 | ug/Kg | | |
| Butylbenzylphthalate | 900 | | 430 | 43 | ug/Kg | | |
| -Dichlorobenzidine | < 43 | U | 430 | 43 | ug/Kg | | |
| izo(a)anthracene | 440 | | 430 | 43 | ug/Kg | | |
| Chrysene | 700 | * | 430 | 69 | ug/Kg | | |
| 2-Ethylhexyl)phthalate | 5200 | EB | 430 | 43 | ug/Kg | | |
| n-octyl phthalate | < 65 | U | 430 | 65 | ug/Kg | | |
| Senzo(b)fluoranthene | 580 | | 430 | 43 | ug/Kg | | |
| izo(k)fluoranthene | 900 | | 430 | 110 | ug/Kg | | |
| enzo(a)pyrene | 700 | | 430 | 65 | ug/Kg | | |
| deno(1,2,3-cd)pyrene | 120 | J | 430 | 69 | ug/Kg | | 15 |
| enz(a,h)anthracene | < 65 | U | 430 | 65 | ug/Kg | | |
| enzo(g,h,i)perylene | 240 | J | 430 | 56 | ug/Kg | | |

SVOC-PP BNA

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-06

8/9/02

Date Analyzed: Date Extracted: 8/14/02

8/21/02

Dilution:

Date Collected:

Analytical Method: Sample Wt/Wol:

8270 30.0

Injection Vol:

Associated Blank:

PB081402-08B

Client ID:

Date Received:

Matrix:

8/9/02

TP-4

File ID:

SOIL BD001863.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

1000

% Moisture:

| Parameter | Concentration | C | | RDL | MDL | 2 | Units | | |
|-----------------------------------|--|--------|-----|----------|-----|----|----------|--|----|
| SURROGATES | ************************************** | | | | 2 2 | | | | |
| _ Fluorophenol | 292.61 | 98 % | | 25 - 121 | | | SPK: 300 | | |
| ienol-d5 | 239.13 | 80 % | 2 | 24 - 113 | | | SPK: 300 | | 20 |
| Nitrobenzene-d5 | 168.9 | 84 % | | 23 - 120 | | | SPK: 200 | | |
| Fluorobiphenyl | 173.98 | 87 % | | 30 - 115 | | | SPK: 200 | | |
| 4,6-Tribromophenol | 308.79 | 103 % | | 19 - 122 | | | SPK: 300 | | |
| Terphenyl-d14 | 269.09 | 135 % | 4 | 18 - 137 | | | SPK: 200 | | |
| ITERNAL STANDARDS | | ****** | | | | | F g | | |
| Naphthalene-d8 | 128896 | 8.01 | | | | | | | |
| enaphthene-d10 | 97255 | 11.71 | | | | | | | |
| ienanthrene-d10 | 149576 | 14.89 | | | | | | | |
| Chrysene-d12 | 86524 | 20.71 | | | | | | | |
| rylene-d12 | 33690 | 23.69 | | | 12 | | | | |
| TENTITIVE IDENTIFIED COMP | POUNDS | | | | | | , t t t | | , |
| r CP | 3900 | A | | 3.34 | | | ug/Kg | | |
| [lfur, mol. (S8) | 600 | J | 200 | 17.30 | | | ug/Kg | | |
| Anthracene, 9-dodecyltetradecahyd | 880 | J | | 24.39 | | | ug/Kg | | |
| s-20-en-16-ol, (16.beta.,18.alpha | 840 | J | | 24.89 | | 71 | ug/Kg | | |

SDG No.: P3702-01

Client:

PMK Group

Sample ID:

P3702-06DL

TP-4DL

Date Collected:

8/9/02

Date Analyzed:

8/22/02 8/14/02

Date Extracted: Dilution:

Analytical Method:

Sample Wt/Wol:

8270 30.0

Injection Vol: Associated Blank:

2

PB081402-08B

Client ID:

Date Received:

8/9/02

Matrix: File ID:

SOIL BD001896.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol: % Moisture:

1000

| 7 zameter | Concentration | C | RDL | MDL | Units | | | | - 5 | |
|---------------------------|---------------|-----|------|-------|-------|-------|---------|----|-----|---|
| TARGETS | | | | Bet V | 143 | 1-1-1 | - J. D. | | | • |
| Vitrosodimethylamine | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| l anol | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| ois(2≈Chloroethyl)ether | < 260 | Ų | 2200 | 260 | ug/Kg | | | | | |
| Chlorophenol | < 240 | U | 2200 | 240 | ug/Kg | | | | | |
| i,z-Dichlorobenzene | < 220 | U | 2200 | 220 | ug/Kg | | * | 22 | | |
| 1,3-Dichlorobenzene | < 260 | U | 2200 | 260 | ug/Kg | | | | - | |
| Dichlorobenzene | < 220 | U | 2200 | 220 | ug/Kg | | - | | | |
| Benzyl Alcohol | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| ?-Methylphenol | < 220 | U | 2200 | 220 | ug/Kg | | 92 | 72 | | 4 |
| '-oxybis(1-chloropropane) | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| 3+4-Methylphenols | < 390 | U | 2200 | 390 | ug/Kg | | | | | |
| Nitroso-di-n-propylamine | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| wachloroethane | < 240 | U e | 2200 | 240 | ug/Kg | | | | | |
| Vitrobenzene | < 220 | U | 2200 | 220 | ug/Kg | ŝ | | | | |
| phorone | < 220 | U | 2200 | 220 | ug/Kg | • | | | | |
| Jitrophenol | < 240 | U | 2200 | 240 | ug/Kg | | | | | |
| ,4-Dimethylphenol | < 500 | U | 2200 | 500 | ug/Kg | ** | | | | |
| 2-Chloroethoxy)methane | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| , -Dichlorophenol | < 280 | U | 2200 | 280 | ug/Kg | 15 | | | | |
| ,2,4-Trichlorobenzene | < 260 | U | 2200 | 260 | ug/Kg | | | | | |
| phthalene | < 260 | U | 2200 | 260 | ug/Kg | | | | | |
| -Chloroaniline | < 260 | U | 2200 | 260 | ug/Kg | | | | | |
| Iexachlorobutadiene | < 330 | U | 2200 | 330 | ug/Kg | | | | | |
| hloro-3-methylphenol | < 240 | U | 2200 | 240 | ug/Kg | 4 | | | | |
| lexachlorocyclopentadiene | < 820 | U | 2200 | 820 | ug/Kg | | | | | |
| 4.6-Trichlorophenol | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| 5-Trichlorophenol | < 220 | U | 5500 | 220 | ug/Kg | 2 5 | - | | | 4 |
| -Chloronaphthalene | < 260 | U | 2200 | 260 | ug/Kg | | | | | |
| aethylphthalate | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| naphthylene | < 260 | U | 2200 | 260 | ug/Kg | | | | | |
| ,6-Dinitrotoluene | < 220 | U | 2200 | 220 | ug/Kg | | | | | |
| | | | | | * | | | | | |

SVOC-PP BNA

SDG No.: P3702-01

Client: PMK Group

Sample ID:

P3702-06DL

Date Collected:

8/9/02

Date Analyzed:
Date Extracted:

8/22/02 8/14/02

Dilution:

5

Analytical Method: Sample Wt/Wol:

8270

Injection Vol: Associated Blank: 30.0

PB081402-08B

Client ID:

TP-4DL

Date Received:

8/9/02

Matrix:

SOIL

File ID:

BD001896.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

1000

% Moisture:

| Yarameter | Concentration | C | RDL | MDL | Units | | |
|------------------------|---------------|--------|----------|-----|----------|-----|-------|
| SURROGATES | | | , k | | | | |
| Fluorophenol | 25.15 | 42 % | 25 - 121 | | SPK: 300 | 14 | |
| enol-d5 | 34.39 | - 57 % | 24 - 113 | | SPK: 300 | | 14.1 |
| Nitrobenzene-d5 | 25.83 | 65 % | 23 - 120 | | SPK: 200 | 7 | ű. |
| Fluorobiphenyl | 23.83 | 60 % | 30 - 115 | | SPK: 200 | | × 3 |
| 1,6-Tribromophenol | 38.89 | 65 % | 19 - 122 | | SPK: 300 | | |
| Terphenyl-d14 | 57.21 | 143 % | 18 - 137 | 1 | SPK: 200 | 5 | |
| TERNAL STANDARDS | | | | | ¥. | | |
| 1,4-Dichlorobenzene-d4 | 42373 | 5.54 | | | | | |
| Fiphthalene-d8 | 130181 | 7.97 | | | | | |
| enaphthene-d10 | 89954 | 11.68 | | | * | 794 | £ (5) |
| Phenanthrene-d10 | 120971 | 14.83 | | | | | |
| Carysene-d12 | 36376 | 20.64 | | | | | |
| ylene-d12 | 10965 | 23.61 | | 12 | | 140 | 9 19 |

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-07

8/9/02

Date Analyzed: Date Extracted: 8/20/02 8/14/02

Dilution:

Date Collected:

Analytical Method:

Sample Wt/Wol:

Injection Vol:

Associated Blank:

30.6 2 PB081402-08B

8270

Client ID:

TP-4D

Date Received:

8/9/02

Matrix: File ID:

SOIL

Instrument ID:

BD001857.D

Analytical Run ID:

5971D

Extract Vol:

1000

% Moisture:

| rameter | Concentration | C | RDL | MDL | Units | * |
|----------------------------|---------------|-----|------|-----|-------|--|
| TARGETS | 7 | | × | .81 | | Washington and the same of the |
| Nitrosodimethylamine | < 40 | U | 400 | 40 | ug/Kg | 8 |
| enol | < 40 | U . | 400 | 40 | ug/Kg | |
| bis(2=Chloroethyl)ether | < 49 | u | 400 | 49 | ug/Kg | |
| Chlorophenol | < 44 | U | 400 | 44 | ug/Kg | |
| _,2-Dichlorobenzene | < 40 | U | 400 | 40 | ug/Kg | |
| 1,3-Dichlorobenzene | < 49 | U | 400 | 49 | ug/Kg | 3 9 |
| 1-Dichlorobenzene | < 40 | U | 400 | 40 | ug/Kg | |
| penzyl Alcohol | < 40 | U | 400 | 40 | ug/Kg | |
| 2-Methylphenol | < 40 | U | 400 | 40 | ug/Kg | |
| !'-oxybis(1-chloropropane) | < 40 | U | 400 | 40 | ug/Kg | |
| 3+4-Methylphenols | < 73 | U | 400 | 73 | ug/Kg | * 1 |
| M Nitroso-di-n-propylamine | < 40 | U | 400 | 40 | ug/Kg | |
| xachloroethane | < 44 | U | 400 | 44 | ug/Kg | |
| Nitrobenzene | < 40 | U | 400 | 40 | ug/Kg | |
| phorone | < 40 | U | 400 | 40 | ug/Kg | |
| Nitrophenol | < 44 | U | 400 | 44 | ug/Kg | |
| 2,4-Dimethylphenol | < 93 | U | 400 | 93 | ug/Kg | |
| (2-Chloroethoxy)methane | < 40 | U | 400 | 40 | ug/Kg | |
| -Dichlorophenol | < 53 | U | 400 | 53 | ug/Kg | |
| 1,2,4-Trichlorobenzene | < 49 | U . | 400 | 49 | ug/Kg | |
| ' phthalene | < 49 | U | 400 | 49 | ug/Kg | · |
| Chloroaniline | < 49 | U | 400 | 49 | ug/Kg | _ |
| Texachlorobutadiene | < 61 | U | 400 | 61 | ug/Kg | |
| Chloro-3-methylphenol | < 44 | U | 400 | 44 | ug/Kg | |
| iexachlorocyclopentadiene | < 150 | U | 400 | 150 | ug/Kg | * |
| 4,6-Trichlorophenol | < 40 | U | 400 | 40 | ug/Kg | 9 |
| ,5-Trichlorophenol | < 40 | U | 1000 | 40 | ug/Kg | |
| :-Chloronaphthalene | < 49 | U | 400 | 49· | ug/Kg | |
| Prethylphthalate | < 40 | U : | 400 | 40 | ug/Kg | |
| enaphthylene | < 49 | U | 400 | 49 | ug/Kg | |
| ,6-Dinitrotoluene | < 40 | U | 400 | 40 | ug/Kg | |

SDG No.: P3702-01

Client: PMK Group

Sample ID: P3702-07 Client ID: TP-4D

Date Collected: 8/9/02 Date Received: 8/9/02

Date Analyzed: 8/20/02 Matrix: SOIL

Date Extracted: 8/14/02 File ID: BD001857.D

Dilution: 1 Instrument ID: 5971D

Analytical Method: 8270 Analytical Run ID: 1

 Analytical Method:
 8270
 Analytical Run ID:
 1

 Sample Wt/Wol:
 30.6
 Extract Vol:
 1000

 Injection Vol:
 2
 % Moisture:
 20

Injection Vol: 2 % Moisture:
Associated Blank: PB081402-08B

| P-rameter | Concentration | C | RDL | MDL | Units | * | • |
|----------------------------|---------------|-----|------|-----|-------|-----|-----|
| TARGETS | | | | | | | |
| Agenaphthene | < 49 | U | 400 | 49 | ug/Kg | | |
| -Dinitrophenol | < 81 | U | 1000 | 81 | ug/Kg | | |
| 4-Nitrophenol | < 44 | Ú | 1000 | 44 | ug/Kg | | |
| Dinitrotoluene | < 44 | U - | 400 | 44 | ug/Kg | | |
| ethylphthalate | < 40 | U . | 400 | 40 | ug/Kg | | |
| 1-Chlorophenyl-phenylether | < 49 | U | 400 | 49 | ug/Kg | | |
| torene | < 44 | U | 400 | 44 | ug/Kg | | * |
| -Dinitro-2-methylphenol | < 49 | U | 1000 | 49 | ug/Kg | | |
| N-Nitrosodiphenylamine | < 81 | U | 400 | 81 | ug/Kg | 4.5 | |
| obenzene | < 44 | U | 400 | 44 | ug/Kg | | |
| Bromophenyl-phenylether | < 53 | U | 400 | 53 | ug/Kg | | * |
| Texachlorobenzene | < 44 | U | 400 | 44 | ug/Kg | | |
| itachlorophenol | < 77 | U | 1000 | 77 | ug/Kg | | |
| nenanthrene | < 40 | U | 400 | 40 | ug/Kg | | |
| Inthracene | < 53 | U | 400 | 53 | ug/Kg | | |
| n-butylphthalate | < 49 | U | 400 | 49 | ug/Kg | | |
| luoranthene | < 40 | U | 400 | 40 | ug/Kg | | |
| enzidine | < 44 | U- | 400 | 44 | ug/Kg | | |
| ene | < 40 | U | 400 | 40 | ug/Kg | | |
| utylbenzylphthalate | < 40 | U . | 400 | 40 | ug/Kg | | |
| -Dichlorobenzidine | < 40 | U | 400 | 40 | ug/Kg | | |
| izo(a)anthracene | < 40 | U | 400 | 40 | ug/Kg | | |
| hrysene | < 65 | U | 400 | 65 | ug/Kg | ** | |
| 2-Ethylhexyl)phthalate | < 40 | U | 400 | 40 | ug/Kg | . * | |
| n-octyl phthalate | < 61 | U | 400 | 61 | ug/Kg | | |
| enzo(b)fluoranthene | < 40 | U | 400 | 40 | ug/Kg | | - " |
| zo(k)fluoranthene | < 110 | U | 400 | 110 | ug/Kg | | |
| ciizo(a)pyrene | < 61 | U | 400 | 61 | ug/Kg | | |
| ideno(1,2,3-cd)pyrene | < 65 | U | 400 | 65 | ug/Kg | | |
| enz(a,h)anthracene | < 61 | U | 400 | 61 | ug/Kg | | |
| enzo(g,h,i)perylene | < 53 | U | 400 | 53 | ug/Kg | | |
| | | | | | | | |

SVOC-PP BNA

SDG No.: P3702-01

PMK Group Client:

Sample ID: P3702-07

Date Collected: 8/9/02

Date Analyzed: 8/20/02

Date Extracted: 8/14/02

Dilution:

Analytical Method: 8270 30.6

Sample Wt/Wol:

Injection Vol:

Associated Blank:

PB081402-08B

Client ID:

TP-4D

Date Received:

8/9/02

Matrix:

SOIL

File ID:

BD001857.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

1000

% Moisture:

| rameter | Concentration | C | RDL | MDL | Units | |
|------------------------|---------------|-------|----------|-----|----------|------|
| SURROGATES | | | | | | |
| luorophenol | 259.23 | 86 % | 25 - 121 | 70 | SPK: 300 | |
| l enol-d5 | 255.67 | 85 % | 24 - 113 | | SPK: 300 | |
| Nitrobenzene-d5 | 178.15 | 89 % | 23 - 120 | 10 | SPK: 200 | |
| Fluorobiphenyl | 188.75 | 94 % | 30 - 115 | | SPK: 200 | k) |
| د, 4,6-Tribromophenol | 339.97 | 113 % | 19 - 122 | - | SPK: 300 | |
| Terphenyl-d14 | 325.53 | 163 % | 18 - 137 | | SPK: 200 | |
| TERNAL STANDARDS | | , | | | | |
| 1,4-Dichlorobenzene-d4 | 37527 | 5.58 | | | | |
| phthalene-d8 | 107455 | 8.03 | | | | ř. |
| enaphthene-d10 | 79049 | 11.72 | | - | | |
| Phenanthrene-d10 | 117840 | 14.91 | | - | | |
| rysene-d12 | 72105 | 20.71 | | | | |
| rerylene-d12 | 54753 | 23.65 | | | ž. | |
| NTITIVE IDENTIFIED CO | MPOUNDS | 14 | | e 9 | | |
| ©.°P | * 8700 | A | 3.36 | 0 | ug/Kg | * ,, |

SDG No.: P3702-01

Client: PMK Group

Sample ID:

P3702-08

Client ID: TP-13

Date Collected: Date Analyzed:

8/9/02

8/21/02

Date Extracted:

8/14/02

Dilution:

Analytical Method:

8270

Sample Wt/Wol: Injection Vol:

30.0

Associated Blank:

PB081402-08B

Date Received:

8/9/02

Matrix: File ID: SOIL BD001864.D

Instrument ID:

5971D

Analytical Run ID:

Extract Vol:

1000

% Moisture:

4%

| rameter | Concentration | C |] | KDL . | I | MDL | , | Units | | | | |
|-----------------------------|---------------|----|-----|-------|-----|-----|-----|-------|-----|-----|-----|---|
| TARGETS | | | | | | - | | | | | | |
| i Vitrosodimethylamine | < 34 | U | 7 | 340 | | 34 | | ug/Kg | | (*) | | |
| l enol | < 34 | U | | 340 | | 34 | | ug/Kg | | | | |
| bis(2=Chloroethyl)ether | < 41 | U. | | 340 | | 41 | | ug/Kg | | | 20 | |
| Chlorophenol | < 38 | U | | 340 | | 38 | | ug/Kg | | | | |
| 1,2-Dichlorobenzene | < 34 | U | | 340 | | 34 | | ug/Kg | | | | |
| 1,3-Dichlorobenzene | < 41 | U | | 340 | | 41 | | ug/Kg | | | × | |
| :-Dichlorobenzene | < 34 | U | | 340 | | 34 | | ug/Kg | | | | |
| Benzyl Alcohol | < 34 | U | | 340 | | 34 | (4) | ug/Kg | | | | |
| ?-Methylphenol | < 34 | U | | 340 | 100 | 34 | | ug/Kg | | | | |
| '-oxybis(1-chloropropane) | < 34 | U | | 340 | | 34 | | ug/Kg | | | | |
| 3+4-Methylphenols | < 62 | U | | 340 | | 62 | | ug/Kg | 380 | | | |
| '' Nitroso-di-n-propylamine | < 34 | U | * | 340 | | 34 | | ug/Kg | | | | |
| xachloroethane | < 38 | U | | 340 | | 38 | | ug/Kg | | | | |
| Vitrobenzene | < 34 | U | | 340 | | 34 | * | ug/Kg | | | | |
| phorone | < 34 | U | | 340 | 90 | 34 | | ug/Kg | | | | |
| Vitrophenol | < 38 | U | | 340 | | 38 | | ug/Kg | | | | |
| :,4-Dimethylphenol | < 79 | U | | 340 | | 79 | | ug/Kg | | | | |
| 2-Chloroethoxy)methane | < 34 | U | | 340 | | 34 | | ug/Kg | | | | |
| ,Dichlorophenol | < 45 | U | ** | 340 | | 45 | | ug/Kg | | | . , | |
| ,2,4-Trichlorobenzene | < 41 | U | | 340 | | 41 | | ug/Kg | | | | |
| hthalene | < 41 | U | | 340 | | 41 | | ug/Kg | | 14 | | 4 |
| -Chloroaniline | < 41 | U | | 340 | | 41 | | ug/Kg | | | | |
| Iexachlorobutadiene | < 52 | U | | 340 | | 52 | , | ug/Kg | | | | |
| hloro-3-methylphenol | < 38 | U | | 340 | | 38 | | ug/Kg | *1 | | | |
| Iexachlorocyclopentadiene | < 130 | U | (2) | 340 | | 130 | - 4 | ug/Kg | | | | |
| 1,6-Trichlorophenol | < 34 | U | 1 | 340 | | 34 | | ug/Kg | | .* | | |
| 5-Trichlorophenol | < 34 | U | | 860 | | 34 | | ug/Kg | - | | | |
| -Chloronaphthalene | < 41 | U | | 340 | | 41. | | ug/Kg | 45 | | | |
| : iethylphthalate | < 34 | U | | 340 | | 34 | | ug/Kg | | | | |
| naphthylene | < 41 | U | | 340 | | 41 | | ug/Kg | * | | | |
| ,6-Dinitrotoluene | < 34 | U | | 340 | | 34 | | ug/Kg | | | | |
| | | | | 5 | | | | | | | | |

SDG No.: P3702-01

PMK Group Client:

Sample ID:

P3702-08

Date Collected: 8/9/02

8/21/02

Date Analyzed: Date Extracted:

8/14/02

Dilution: Analytical Method:

8270

2

Sample Wt/Wol:

30.0

PB081402-08B

Injection Vol:

Associated Blank:

Client ID:

TP-13

Date Received:

8/9/02

Matrix:

SOIL

File ID:

BD001864.D

Instrument ID: Analytical Run ID:

5971D

Extract Vol:

1000

% Moisture:

| rameter | Concentratio | on C | RDL | MDL | Units | | |
|----------------------------|--------------|------|-------|------|-------|------|-----|
| TARGETS | | | | | , | | , |
| enaphthene | < 41 | U | 340 | 41 | ug/Kg | | |
| I-Dinitrophenol | < 69 | Ŭ | 860 | 69 | ug/Kg | | |
| 4-Nitrophenol | < 38 | Ţ. | 860 . | 38 | ug/Kg | | 2. |
| *-Dinitrotoluene | < 38 | U | 340 | 38 | ug/Kg | | |
| _ 'ethylphthalate | < 34 | U | 340 | 34 | ug/Kg | | |
| 4-Chlorophenyl-phenylether | < 41 | U | 340 | 41 | ug/Kg | | |
| inorene | < 38 | U | 340 | 38 | ug/Kg | | * |
| +,ô-Dinitro-2-methylphenol | < 41 | U | 860 | 41 | ug/Kg | | |
| N-Nitrosodiphenylamine | < 69 | U | 340 | 69 | ug/Kg | | |
| obenzene | < 38 | U | 340 | 38 | ug/Kg | 2. | |
| 1-Bromophenyl-phenylether | < 45 | U | 340 | 45 | ug/Kg | 9. | |
| Jexachlorobenzene | < 38 | U | 340 | 38 | ug/Kg | | *** |
| ntachlorophenol | < 65 | U | 860 | 65 | ug/Kg | | |
| Phenanthrene | < 34 | U | 340 | 34 | ug/Kg | | 2 , |
| thracene | < 45 | U | 340 | 45 | ug/Kg | | |
| n-butylphthalate | < 41 | U | 340 | 41 | ug/Kg | | |
| Fluoranthene | 49 | J | 340 | 34 | ug/Kg | | |
| azidine | < 38 | U | 340 | 38 | ug/Kg | | |
| rene | 80 | J | 340 | 34 | ug/Kg | | 20 |
| Butylbenzylphthalate | < 34 | U | 340 | 34 | ug/Kg | | |
| -Dichlorobenzidine | < 34 | - U | 340 | 34 | ug/Kg | | ±. |
| Lozo(a)anthracene | < 34 | U | 340 | -34 | ug/Kg | | 5 6 |
| Chrysene | < 55 | U | 340 | 55 | ug/Kg | | |
| (2-Ethylhexyl)phthalate | . 68 | JB | 340 | 34 | ug/Kg | | |
| n-n-octyl phthalate | < 52 | U | 340 | . 52 | ug/Kg | | |
| lenzo(b)fluoranthene | < 34 | Ű | 340 | 34 | ug/Kg | | |
| ızo(k)fluoranthene | < 89 | U | 340 | 89 | ug/Kg | | |
| Senzo(a)pyrene | < 52 | U | 340 | 52 | ug/Kg | (4// | |
| deno(1,2,3-cd)pyrene | < 55 | U | 340 | 55 | ug/Kg | (4) | |
| enz(a,h)anthracene | < 52 | U | 340 | 52 | ug/Kg | * | |
| enzo(g,h,i)perylene | < 45 | U | 340 | 45 | ug/Kg | | |

SVOC-PP BNA

SDG No.: P3702-01

Client:

PMK Group

Sample ID:

P3702-08

8/9/02

Date Analyzed:
Date Extracted:

Date Collected:

8/21/02 8/14/02

Dilution:

1

Analytical Method: Sample Wt/Wol:

 $\frac{d: 8270}{30.0}$

Injection Vol: Associated Blank:

.

30.0

PB081402-08B

Client ID:

TP-13

Date Received:

8/9/02

Matrix:

SOIL

File ID:

BD001864.D

Instrument ID: Analytical Run ID:

5971D

Extract Vol: % Moisture:

1000

| T rameter | Concentration | . · C | RDL | MDL | Units | | 20 | 8 | |
|---------------------------|---------------|-------|----------|-----|----------------|---|-----|-----|--|
| SURROGATES | | | | | 157 | | | | |
| ? "Iuorophenol | 253.82 | 85 % | 25 - 121 | | SPK: 300 | | | | |
| 1 enol-d5 | 205.37 | 68 % | 24 - 113 | 24 | SPK: 300 | | | | |
| Nitrobenzene-d5 | 128.26 | 64 % | 23 - 120 | | SPK: 200 | | | | |
| : Fluorobiphenyl | 151.46 | 76 % | 30 - 115 | | SPK: 200 | | | - 6 | |
| ., .,6-Tribromophenol | 259.18 | 86 % | 19 - 122 | 4 | SPK: 300 | | | | |
| Terphenyl-d14 | 329.85 | 165 % | 18 - 137 | | SPK: 200 | | | | |
| TERNAL STANDARDS | *1 (e) _ | | 1 | i. | T _e | | | | |
| 1,4-Dichlorobenzene-d4 | 38353 | 5.57 | | | | | | | |
| phthalene-d8 | 113675 | 8.01 | | ¥ × | | | | | |
| enaphthene-d10 | 81617 | 11.71 | | | 187 | 4 | 7.8 | | |
| Phenanthrene-d10 | 117282 | 14.88 | | | | | | | |
| rysene-d12 | 54744 | 20.69 | 7 3 | | | | | | |
| : Jrylene-d12 | 21790 | 23.67 | | | 9 | | | | |
| CENTITIVE IDENTIFIED COMP | POUNDS | | | | | | | | |
| P | 4900 | A | 3.33 | | ug/Kg | | | | |

SDG No.: P3702-01

Client: **PMK** Group

P3702-09 Sample ID:

Date Collected: 8/9/02

8/21/02 Date Analyzed:

Date Extracted: 8/14/02

Dilution:

Analytical Method: 8270

30.0 Sample Wt/Wol: Injection Vol:

Associated Blank:

2 PB081402-08B Client ID:

TP-10

Date Received:

8/9/02

Matrix:

SOIL

File ID:

BD001865.D

Instrument ID:

Analytical Run ID:

Extract Vol:

% Moisture:

1000

5971D

| - | 2 | 4 | |
|---|----|---|--|
| | 44 | ŀ | |
| | _ | | |

| rameter | Concentration | C. | RDL | MDL . | Units | | | 3 |
|---------------------------|---------------|----|---------|-------|-------|----|------|-----|
| TARGETS | | | 7: | 19 | | | | |
| : Nitrosodimethylamine | < 43 | U | 430 | 43 | ug/Kg | | | 912 |
| \ enol | < 43 | U | 430 | 43 | ug/Kg | 12 | | • |
| bis(2=Chloroethyl)ether | < 52 | U | 430 | 52 | ug/Kg | 8 | 5 | |
| Chlorophenol | < 48 | U | 430 | 48 | ug/Kg | | * | 4 4 |
| _,Dichlorobenzene | < 43 | U | 430 | 43 | ug/Kg | | * | |
| 1,3-Dichlorobenzene | < 52 | U | 430 | 52 | ug/Kg | | | 2. |
| 1-Dichlorobenzene | < 43 | U | 430 | 43 | ug/Kg | | | |
| penzyl Alcohol | < 43 | U | 430 | 43 | ug/Kg | 0 | ¥ | |
| 2-Methylphenol | < 43 | U | 430 | 43 | ug/Kg | | | |
| '-oxybis(1-chloropropane) | < 43 | U | 430 | 43 | ug/Kg | 7 | | |
| 3+4-Methylphenols | < 78 | U | 430 | 78 | ug/Kg | | | |
| Nitroso-di-n-propylamine | < 43 | U | 430 | 43 | ug/Kg | | * 1 | |
| xachloroethane | < 48 | U | 430 | 48 | ug/Kg | | 27 | |
| Vitrobenzene | < 43 | U | 430 | 43 | ug/Kg | | | |
| phorone | < 43 | U | 430 | 43 | ug/Kg | * | | |
| litrophenol | < 48 | U | 430 - | 48 | ug/Kg | | | |
| !,4-Dimethylphenol | < 100 | U | 430 | 100 | ug/Kg | | * | |
| (2-Chloroethoxy)methane | < 43 | U | 430 | 43 | ug/Kg | | | |
| -Dichlorophenol | < 56 | U | 430 | 56. | ug/Kg | | 3. " | |
| ,2,4-Trichlorobenzene | < 52 | U | 430 | 52 | ug/Kg | | 5 - | |
| phthalene | 67 | J | 430 | 52 | ug/Kg | | | |
| -Chloroaniline | < 52 | ,U | 430 | 52 | ug/Kg | | | |
| Iexachlorobutadiene | < 65 | U | 430 | 65 | ug/Kg | | | |
| hloro-3-methylphenol | < 48 | U | 430 | 48 | ug/Kg | 2 | | |
| texachlorocyclopentadiene | < 160 | U | 430 | 160 | ug/Kg | * | | |
| 4.6-Trichlorophenol | < 43 | U | 430 | 43 | ug/Kg | | | |
| ,5-Trichlorophenol | < 43 | U | 1100 | 43 | ug/Kg | | | |
| -Chloronaphthalene | < 52 | U | 430 | 52 | ug/Kg | | * | |
| emethylphthalate | < 43 | U | 430 | 43 | ug/Kg | | | |
| naphthylene | 120 | J | 430 | 52 | ug/Kg | | | |
| ,6-Dinitrotoluene | < 43 | U | 430 | 43 | ug/Kg | | | |
| | | | | | | | | |

SDG No.: P3702-01

Client: **PMK Group**

Sample ID:

P3702-09

8/9/02

Date Analyzed:

8/21/02 Date Extracted: 8/14/02

Dilution:

Date Collected:

Analytical Method: Sample Wt/Wol:

8270

Injection Vol:

30.0 2

PB081402-08B Associated Blank:

Client ID:

TP-10

Date Received:

8/9/02 SOIL

Matrix: File ID:

BD001865.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

1000 24

% Moisture:

| rameter | Concentration | C | RDL | MDL | Units | |
|----------------------------|---------------|----------|-------|------|-------|--------|
| TARGETS | | | | | | |
| Asienaphthene | < 52 | U . | 430 | 52 | ug/Kg | * * |
| -Dinitrophenol | < 87 | U | 1100 | 87 | ug/Kg | |
| 1-Nitrophenol | < 48 | Ų. | -1100 | 48 | ug/Kg | |
| -Dinitrotoluene | < 48 | U | 430 | 48 | ug/Kg | |
| ethylphthalate, | < 43 | U - | 430 | 43 | ug/Kg | 1 |
| 1-Chlorophenyl-phenylether | < .52 | U | 430 | 52 | ug/Kg | |
| torene | < 48 | U | 430 | 48 | ug/Kg | |
| +,o-Dinitro-2-methylphenol | < 52 | U | 1100 | 52 | ug/Kg | |
| N-Nitrosodiphenylamine | < 87 | U | 430 | 87 | ug/Kg | **** |
| obenzene | < 47 | U - | 430 | 47 | ug/Kg | |
| l-Bromophenyl-phenylether | < 56 | U | 430 | 56 | ug/Kg | * * |
| Fexachlorobenzene | < 48 | U | 430 | 48 | ug/Kg | 2 |
| itachlorophenol | < 82 | U | 1100 | 82 | ug/Kg | |
| henanthrene | 340 | J | 430 | 43 | ug/Kg | |
| thracene | 76 | J | 430 | 56 | ug/Kg | |
| n-butylphthalate | < 52 | U | 430 | 52 | ug/Kg | |
| luoranthene | 900 | | 430 | 43 | ug/Kg | * |
| ızidine | < 47 | U | 430 | 47 | ug/Kg | |
| rene | 1100 | | 430 | 43 | ug/Kg | u = 1° |
| Sutylbenzylphthalate | < 43 | U | 430 | 43 | ug/Kg | |
| -Dichlorobenzidine | < 43 | U | 430 | 43 | ug/Kg | 7, |
| icizo(a)anthracene | 410 | J | 430 | 43 | ug/Kg | * , |
| hrysene | 580 | * | 430 | 69 | ug/Kg | ** |
| 2-Ethylhexyl)phthalate | < 43 | U | 430 | 43 | ug/Kg | |
| n-n-octyl phthalate | < 65 | U | 430 | 65 | ug/Kg | |
| enzo(b)fluoranthene | 460 | * * | 430 | 43 | ug/Kg | |
| zo(k)fluoranthene | 66Ò | | 430 | 11.0 | ug/Kg | |
| enzo(a)pyrene | 530 | | 430 | 65 | ug/Kg | 10 |
| eno(1,2,3-cd)pyrene | 74 | J | 430 | 69 | ug/Kg | |
| enz(a,h)anthracene | < 65 | U | 430 | 65 | ug/Kg | |
| enzo(g,h,i)perylene | 150 | J | 430 | 56 | ug/Kg | 1 9 |

SVOC-PP BNA

SDG No.: P3702-01

Client: **PMK** Group

Sample ID:

Date Collected:

P3702-09

8/9/02

Date Analyzed: Date Extracted:

8/21/02 8/14/02

Dilution:

Analytical Method: Sample Wt/Wol:

Injection Vol:

8270 30.0 2

Associated Blank:

PB081402-08B

Client ID:

TP-10

Date Received:

8/9/02

Matrix:

SOIL

File ID:

BD001865.D

Instrument ID:

5971D

Analytical Run ID: Extract Vol:

| % | Moisture: | 24 |
|---|-----------|----|
| | | _ |

| rameter | Concentration | C | RDL | MDL | Units | | |
|------------------------|---------------|-------|------------|-----|----------|-------|------|
| SURROGATES | - | | | | · · · | | |
| Fluorophenol | 291.01 | 97 % | - 25 - 121 | ~ | SPK: 300 | | |
| enol-d5 | 238.56 | 80 % | 24 - 113 | | SPK: 300 | | |
| Nitrobenzene-d5 | 158.66 | 79 % | 23 - 120 | | SPK: 200 | * 211 | |
| Fluorobiphenyl | 173.43 | 87 % | 30 - 115 | | SPK: 200 | | |
| 2,4,6-Tribromophenol | 314.67 | 105 % | 19 - 122 | 9 | SPK: 300 | | è |
| Terphenyl-d14 | 321.46 | 161 % | 18 - 137 | | SPK: 200 | | |
| TERNAL STANDARDS | | | | | | | 0 |
| 1,4-Dichlorobenzene-d4 | 41486 | 5.56 | | | | P | |
| phthalene-d8 | 121921 | 8.01 | • • • | | | | |
| Lenaphthene-d10 | 89418 | 11.71 | | | | | |
| Phenanthrene-d10 | 129615 | 14.88 | | | | | |
| rysene-d12 | 72086 | 20.70 | | | 4 | 12.11 | |
| erylene-d12 | 28074 | 23.67 | 4 | | | | , 41 |
| NTITIVE IDENTIFIED COM | POUNDS | | 3 | | | | |
| ₽ | 8500 | A | 3.35 | - | ug/Kg | | |
| Hexadecanoic acid | 450 | Љ | 16.42 | | ug/Kg | | |

SDG No.: P3702-01

Client: PMK Group

Sample ID: P3702-10 Client ID: TP-10D

Olivitary 11 100

 Date Collected:
 8/9/02
 Date Received:
 8/9/02

 Date Analyzed:
 8/20/02
 Matrix:
 SOIL

 Date Extracted:
 8/14/02
 File ID:
 BD001856.D

Dilution: 1 Instrument ID: 5971D

Analytical Method: 8270 Analytical Run ID: 1
Sample Wt/Wol: 30.4 Extract Vol: 1000

Injection Vol: 2 % Moisture: 21
Associated Blank: PB081402-08B

| rameter | Concentration | C | RDL | MDL | Units | 3 × 10 | | |
|----------------------------|---------------|-----|------|------|-------|--------|-------|-----|
| TARGETS | | 1.0 | , | | | | | (8) |
| : Nitrosodimethylamine | < 41 | U | 410 | 41 | ug/Kg | | 90 | |
| enol | < 41 | U | 410 | 41 | ug/Kg | | | 183 |
| bis(2 Chloroethyl)ether | < 49 | . U | 410 | . 49 | ug/Kg | | | 2 |
| Chlorophenol | < 45 | U | 410 | 45 | ug/Kg | | | |
| 1,2-Dichlorobenzene | < 41 | U | 410 | 41 | ug/Kg | | * | |
| 1,3-Dichlorobenzene | < 49 | Ù | 410 | 49 | ug/Kg | , | | ±3. |
| 1-Dichlorobenzene | < 41 | U | 410 | 41 . | ug/Kg | | | * |
| Benzyl Alcohol | < 41 | U | 410 | 41 | ug/Kg | | | × |
| 2-Methylphenol | < 41 | U | 410 | 41 | ug/Kg | | | |
| ?'-oxybis(1-chloropropane) | < 41 | Ū | 410 | 41 | ug/Kg | | | |
| 3+4-Methylphenols | < 74 | U | 410 | 74 | ug/Kg | | | |
| Nitroso-di-n-propylamine | < 41 | U | 410 | 41 | ug/Kg | | | |
| xachloroethane | < 45 | U- | 410 | 45 | ug/Kg | | | |
| Nitrobenzene | < 41 | U | 410 | 41 | ug/Kg | | | i. |
| phorone | < 41 | U | 410 | 41 | ug/Kg | | | |
| Nitrophenol | < 45 | U | 410 | 45 | ug/Kg | | | |
| 2,4-Dimethylphenol | < 95 | U | 410 | 95 | ug/Kg | | | |
| (2-Chloroethoxy)methane | < 4.1 | Ū | 410 | 41 | ug/Kg | 8 4 | | |
| , I-Dichlorophenol | < 54 | · U | 410 | 54 | ug/Kg | * | | 77 |
| ,2,4-Trichlorobenzene | < 49 | U | 410 | 49 | ug/Kg | | | * 1 |
| phthalene | < 49 | U | 410 | 49 | ug/Kg | | | |
| -Chloroaniline | < 49 | U . | 410 | 49 | ug/Kg | | 5 200 | |
| Texachlorobutadiene | < 62 | U | 410 | 62 | ug/Kg | | | |
| Chloro-3-methylphenol | < 45 | U. | 410 | 45 | ug/Kg | | | |
| iexachlorocyclopentadiene | < 160 | U | 410 | 160 | ug/Kg | | | 100 |
| 4,6-Trichlorophenol | < 41 | U | 410 | 41 | ug/Kg | | | 6.5 |
| ,5-Trichlorophenol | < 41 | U | 1000 | 41 | ug/Kg | | | |
| -Chloronaphthalene | < 49 | U | 410 | 49 | ug/Kg | | | |
| methylphthalate | < 41 | U | 410 | 41 | ug/Kg | | | |
| enaphthylene | < 49 | U | 410 | 49 | ug/Kg | * | | |
| ,6-Dinitrotoluene | < 41 | U | 410 | 41 | ug/Kg | | | |
| | | | | | | | | |

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-10

Date Collected: Date Analyzed:

8/20/02

Date Extracted: Dilution:

Analytical Method:

Sample Wt/Wol:

Injection Vol:

Associated Blank:

8/9/02

8/14/02

8270 30.4 2

PB081402-08B

Client ID:

TP-10D

8/9/02

Date Received:

Matrix: File ID:

SOIL BD001856.D

Instrument ID: 5971D

Analytical Run ID: Extract Vol:

% Moisture:

1000

| rameter | Concentration | С | RDL | MDL | Units | ** 2 * |
|----------------------------|---------------|-----|------|-----|-------|---------|
| TARGETS | * | · / | i i | | | 9 3. |
| * genaphthene | < 49 | U | 410 | 49 | ug/Kg | (e) (e) |
| | < 82 | U | 1000 | 82 | ug/Kg | v |
| 4-Nitrophenol | < 45 | Ų | 1000 | 45 | ug/Kg | |
| : 1-Dinitrotoluene | < 45 | U. | 410 | 45 | ug/Kg | |
| ethylphthalate | < 41 | U . | 410 | 41 | ug/Kg | 9 |
| 4-Chlorophenyl-phenylether | < 49 | U | 410 | 49 | ug/Kg | |
| lorene | < 45 | U | 410 | 45 | ug/Kg | |
| .,5-Dinitro-2-methylphenol | < 49 | U | 1000 | 49 | ug/Kg | |
| N-Nitrosodiphenylamine | < 82 | U | 410 | 82 | ug/Kg | |
| obenzene | < 45 | U. | 410 | 45 | ug/Kg | |
| +-Bromophenyl-phenylether | < 54 | U | 410 | 54 | ug/Kg | |
| Hexachlorobenzene | < 45 | U | 410 | 45 | ug/Kg | v |
| ntachlorophenol | < 78 | U | 1000 | 78 | ug/Kg | |
| Phenanthrene | < 41 | U | 410 | 41 | ug/Kg | , |
| Anthracene | < 54 | U | 410 | 54 | ug/Kg | |
| -n-butylphthalate | < 49 | Ų | 410 | 49 | ug/Kg | |
| Fluoranthene | < 41 | U | 410 | 41 | ug/Kg | |
| nzidine | < 45 | U | 410 | 45 | ug/Kg | , |
| rene | < 41 | U | 410 | 41 | ug/Kg | |
| Butylbenzylphthalate | < 41 | U | 410 | 41 | ug/Kg | 14 |
| "'-Dichlorobenzidine | < 41 | U | 410 | 41 | ug/Kg | |
| nzo(a)anthracene | < 41 | U | 410 | 41 | ug/Kg | A ** |
| Chrysene | < 66 | U | 410 | 66 | ug/Kg | * * |
| (2-Ethylhexyl)phthalate | 88 | JВ | 410 | 41 | ug/Kg | |
| n-n-octyl phthalate | < 62 | U | 410 | 62 | ug/Kg | |
| Benzo(b)fluoranthene | < 41 | U | 410 | 41 | ug/Kg | |
| nzo(k)fluoranthene | < 110 | U | 410 | 110 | ug/Kg | |
| senzo(a)pyrene | < 62 | U | 410 | 62. | ug/Kg | |
| ndeno(1,2,3-cd)pyrene | < 66 | U | 410 | 66 | ug/Kg | |
| penz(a,h)anthracene | < 62 | U | 410 | 62 | ug/Kg | |
| Benzo(g,h,i)perylene | < 54 | U | 410 | 54 | ug/Kg | |

SVOC-PP BNA

SDG No.: P3702-01

PMK Group Client:

Sample ID:

Date Collected:

8/9/02

8/20/02 Date Analyzed:

Date Extracted: 8/14/02

Dilution:

Analytical Method: Sample Wt/Wol:

8270 30.4

Injection Vol:

Associated Blank:

P3702-10

PB081402-08B

Client ID:

TP-10D

Date Received:

8/9/02

Matrix: File ID:

SOIL

BD001856.D

Instrument ID: Analytical Run ID:

5971D

Extract Vol:

1000

% Moisture:

| rameter | Concentration | , C | RDL | MDL | U | nits | | | |
|--------------------------|---------------|-------|----------|-----|-------|-----------|------|----|---|
| SURROGATES | | | 17 | - | | | E. | | ¥ |
| ? Fluorophenol | 319.34 | 106 % | 25 - 121 | | SF | K: 300 | | | |
| enol-d5 | 258.63 | 86 % | 24 - 113 | | SP | K: 300 | | | |
| Nitrobenzene-d5 | 180.88 | 90 % | 23 - 120 | | SF | K: 200 | 4. 3 | | |
| : Fluorobiphenyl | 189.34 | 95 % | 30 - 115 | | SP | K: 200 | | | ¥ |
| 1, 1,6-Tribromophenol | 352.28 | 117 % | 19 - 122 | 41 | SP | K: .300 | | | |
| Terphenyl-d14 | 324.3 | 162 % | 18 - 137 | | SP | K: 200 | i. | | 3 |
| TERNAL STANDARDS | • | | | | - 1 | | | | |
| 1,4-Dichlorobenzene-d4 | 34882 | 5.58 | . * | | S. 6. | | | | |
| phthalene-d8 | 99589 | 8.03 | | | x 1, | | | | Ŧ |
| enaphthene-d10 | 73401 | 11.73 | | | | | | 70 | |
| Phenanthrene-d10 | 111098 | 14.91 | | | | | ¥* | | |
| rysene-d12 | 72332 | 20.71 | | | | 78 Sec | | | |
| Crylene-d12 | 58194 | 23.66 | | , 2 | | | | | |
| SENTITIVE IDENTIFIED COM | POUNDS | | | | | | | | |
| ₽. | 10000 | A | , 3.37 | | ug | /Kg | | * | |

DRPSR SUMMARY DATA REVIEW CHECKLIST

| 1306 |
|---|
| Non-aqueous analyses lests PCBS Lab Name Chemteels Consulting |
| Aqueous analyses Reviewer L. Range |
| Date Reviewed |
| Samples Reviewed TP-31 TP 33 TP-34, TP-6, TP-6D TP-7, TP-13 TP-10 |
| Note: Please be advised that the full QA/QC package has not been retained in the file. For copies, please contact the laboratory or the owner or operator referenced in the file. NJ certified laboratories are required to retain lab deliverables for a minimum of five years. |
| List RP submitting QA/QC data |
| |
| I. SUMMARY DATA REVIEW REQUIREMENTS: |
| I. SUMMARY DATA REVIEW REQUIREMENTS: Yes No |
| |
| Yes No 1. Signed Laboratory Deliverables Checklist and |
| Yes No 1. Signed Laboratory Deliverables Checklist and Non-Conformance Summary submitted? 2. Problems identified in the Laboratory Deliverables Checklist and Non-Conformance |
| 1. Signed Laboratory Deliverables Checklist and Non-Conformance Summary submitted? 2. Problems identified in the Laboratory Deliverables Checklist and Non-Conformance Summary? |



SITE INVESTIGATION REPORT/ INTERIM REMEDIAL ACTION WORKPLAN VETERANS MEMORIAL PARK BLOCK 260, LOT 15.02 SOUTH PLAINFIELD, NEW JERSEY PMK GROUP NO. 0502014

VOLUME IV

LABORATORY ANALYTICAL DATA PACKAGE

P3702

PREPARED BY:

THE PMK GROUP
PO BOX 5000
65 JACKSON DRIVE
CRANFORD, NEW JERSEY 07016

PREPARED FOR:

BOROUGH OF SOUTH PLAINFIELD 2480 PLAINFIELD AVENUE SOUTH PLAINFIELD, NEW JERSEY 07080

OCTOBER 18, 2002

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-01

Client ID:

TP-31

Date Collected:

8/9/02

8/9/02

Date Analyzed:

8/19/02

Matrix:

SOIL

Date Extracted:

File ID:

3PS6995.D

8/14/02

Dilution:

T

Instrument ID:

Date Received:

Analytical Method:

8081

ECD3

% Moisture:

12.0

Analytical Run ID: Associated Blank:

3PS0816

| | | | | | ** | | |
|----------------------|---------------|------|----------|------|---------|---|------|
| Parameter | Concentration | ı C | RDL | MDL | Units | | |
| TARGETS | | | | | | | |
| alpha-BHC | < 1.4 | U | 1.9 | 1.4 | ug/Kg | | - |
| beta-BHC | < 0.11 | U | 1.9 | 0.11 | ug/Kg | | × |
| delta-BHC | < 0.23 | U | 1.9 | 0.23 | ug/Kg | | |
| gamma-BHC (Lindane) | < 0.11 | U | 1.9 | 0.11 | ug/Kg | | |
| Heptachlor | < 1.1 | U | 1.9 | 1.1 | ug/Kg | | 3.8 |
| Aldrin | < 0.11 | U | 1.9 | 0.11 | ug/Kg | | |
| Heptachlor epoxide | < 0.34 | U | 1.9 | 0.34 | ug/Kg | * | 72 |
| Endosulfan I | < 0.56 | U | 1.9 | 0.56 | ug/Kg | | |
| Dieldrin | < 0.11 | U | 1.9 | 0.11 | ug/Kg | | 41 |
| 4,4'-DDE | < 0.23 | U | 1.9 | 0.23 | ug/Kg | 2 | V. |
| Endrin | < 0.90 | U . | 1.9 | 0.90 | ug/Kg | | |
| Endosulfan II | < 0.34 | U | 1.9 | 0.34 | ug/Kg | | *, * |
| 4,4'-DDD | < 0.23 | U | 1.9 | 0.23 | ug/Kg | | |
| Endosulfan sulfate | < 0.68 | U | 1.9 | 0.68 | ug/Kg | | |
| 4,4'-DDT | < 0.23 | U | 1.9 | 0.23 | ug/Kg | | |
| Methoxychlor | < 0.11 | U | 1.9 | 0.11 | ug/Kg | | |
| Endrin ketone | < 0.11 | U | 1.9 | 0.11 | ug/Kg | 5 | 19 |
| Endrin aldehyde | < 0.90 | U | 1.9 | 0.90 | ug/Kg | | |
| alpha-Chlordane | < 0.34 | U | 1.9 | 0.34 | ug/Kg | | |
| gamma-Chlordane | < 0.34 | U | 1.9 | 0.34 | ug/Kg | | |
| Toxaphene | < 3.6 | U | 19 | 3.6 | ug/Kg | | |
| Chlordane | < 2.1 | U | 19 | 2.1 | ug/Kg | | |
| SURROGATES | | | | | | | |
| Decachlorobiphenyl | 8.6 | 43 % | 30 - 150 | | SPK: 20 | | - |
| Tetrachloro-m-xylene | 12 | 60 % | 30 - 150 | | SPK: 20 | | V 2 |

SDG No.: P3702-01

Client: PMK Group

Sample ID:

P3702-02

Client ID:

TP-33

Date Collected:

8/9/02

Date Received:

8/9/02

Date Analyzed:

8/19/02

Matrix:

SOIL

Date Extracted: 8/14/02

File ID:

3PS6996.D

Dilution:

Analytical Method:

Instrument ID:

ECD3

8081

Analytical Run ID:

3PS0816

% Moisture:

10.0

Associated Blank:

| Parameter. | Concentra | ation C | | RDL | MDL | Units | i i | - * | |
|----------------------|-----------|---------|----|----------|------|---------|-----|-----|-------|
| TARGETS | | | | | | | | | |
| alpha-BHC | < 1.3 | . U - | | 1.9 | 1.3 | ug/Kg | | | |
| beta-BHC | < 0.11 | U | | 1.9 | 0.11 | ug/Kg | | | |
| delta-BHC | < 0.22 | U | * | 1.9 | 0.22 | ug/Kg | | | 0.0 |
| gamma-BHC (Lindane) | < 0.11 | U | | 1.9 | 0.11 | ug/Kg | | | |
| Heptachlor | < 1.1 | · · · U | | 1.9 | 1.1 | ug/Kg | | | 200 |
| Aldrin | < 0.11 | U | 24 | 1.9 | 0.11 | ug/Kg | | | |
| Heptachlor epoxide | < 0.33 | U | 9 | 1.9 | 0.33 | ug/Kg | | | * |
| Endosulfan I | < 0.55 | U | | 1.9 | 0.55 | ug/Kg | | | |
| Dieldrin | < 0.11 | U | | 1.9 | 0.11 | ug/Kg | * * | | 1 |
| 4,4'-DDE | < 0.22 | U | | 1.9 | 0.22 | ug/Kg | | | (4) |
| Endrin | < 0.88 | U | | 1.9 | 0.88 | ug/Kg | | | . 100 |
| Endosulfan II | < 0.33 | U | | 1.9 | 0.33 | ug/Kg | | * | |
| 4,4'-DDD | < 0.22 | U | | 1.9 | 0.22 | ug/Kg | | | 1 |
| Endosulfan sulfate | < 0.66 | U | | 1.9 | 0.66 | ug/Kg | | | |
| 4,4'-DDT | < 0.22 | U | | 1.9 | 0.22 | ug/Kg | | | |
| Methoxychlor | < 0.11 | U | | 1.9 | 0.11 | ug/Kg | | | |
| Endrin ketone | < 0.11 | U | | 1.9 | 0.11 | ug/Kg | | | |
| Endrin aldehyde | < 0.88 | U | | 1.9 | 0.88 | ug/Kg | | | |
| alpha-Chlordane | < 0.33 | Ū | | 1.9 | 0.33 | ug/Kg | | | |
| gamma-Chlordane | < 0.33 | U | | 1.9 | 0.33 | ug/Kg | | 100 | |
| Toxaphene | < 3.5 | Ŭ . | | 19 | 3.5 | ug/Kg | | | |
| Chlordane | < 2.1 | U | 8 | 19 | 2.1 | ug/Kg | | 4 | |
| SURROGATES | | | | - 4 | | | | | |
| Decachlorobiphenyl | 8.95 | 45 % | | 30 - 150 | | SPK: 20 | | | |
| Tetrachloro-m-xylene | 8.43 | 42 % | | 30 - 150 | | SPK: 20 | | | * |
| 1172 | | | | | Sec. | | 9 | | |

SDG No.: P3702-01

Client:

PMK Group

Sample ID:

P3702-03

Client ID:

TP-34

Date Collected:

8/9/02

8/19/02

Date Analyzed: Date Extracted: 8/14/02

Dilution:

8081

Analytical Method: % Moisture:

15.0

Date Received:

8/9/02

Matrix:

SOIL

File ID:

3PS6997.D

Instrument ID: Analytical Run ID: ECD3

Associated Blank:

3PS0816

| maj trous sture so. | 0100 |
|---------------------|------|
| 1 1 7 7 1 | |
| sociated Blank | |

| | | | | | | , , , , , , , , , , , , , , , , , , , | | |
|----------------------|-------------|------|----------|------|---------|---------------------------------------|-----|-----|
| Parameter | Concentrati | on C | RDL | MDL | Units | | | |
| TARGETS | | | | | | | | |
| alpha-BHC | < 1.4 | U | 2.0 | 1.4 | ug/Kg | | | |
| beta-BHC | < 0.12 | U | 2.0 | 0.12 | ug/Kg | 74 | | Y., |
| delta-BHC | < 0.23 | U | 2.0 | 0.23 | ug/Kg | | | |
| gamma-BHC (Lindane) | < 0.12 | U | 2.0 | 0.12 | ug/Kg | | 4 | |
| Heptachlor | < 1.2 | U | 2.0 | 1.2 | ug/Kg | | 4.5 | |
| Aldrin | < 0.12 | U | 2.0 | 0.12 | ug/Kg | | 45 | |
| Heptachlor epoxide | < 0.35 | U | 2.0 | 0.35 | ug/Kg | | | |
| Endosulfan I | < 0.59 | U | 2.0 | 0.59 | ug/Kg | 5 | | |
| Dieldrin | < 0.12 | U | 2.0 | 0.12 | ug/Kg | | | 1 |
| 4,4'-DDE | < 0.23 | U | 2.0 | 0.23 | ug/Kg | | 46 | |
| Endrin | < 0.94 | U | 2.0 | 0.94 | ug/Kg | | | |
| Endosulfan II | < 0.35 | U | 2.0 | 0.35 | ug/Kg | | | |
| 4,4'-DDD | < 0.23 | U | 2.0 | 0.23 | ug/Kg | | | |
| Endosulfan sulfate | < 0.70 | U | 2.0 | 0.70 | ug/Kg | | | |
| 4,4'-DDT | < 0.23 | U | 2.0 | 0.23 | ug/Kg | | | |
| Methoxychlor | < 0.12 | U | 2.0 | 0.12 | ug/Kg | | | |
| Endrin ketone | < 0.12 | U | 2.0 | 0.12 | ug/Kg | | | |
| Endrin aldehyde | < 0.94 | U | 2.0 | 0.94 | ug/Kg | | | |
| alpha-Chlordane | < 0.35 | U | 2.0 | 0.35 | ug/Kg | | • | |
| gamma-Chlordane | < 0.35 | U | 2.0 | 0.35 | ug/Kg | 0 | | |
| Toxaphene | < 3.8 | U | 20 | 3.8 | ug/Kg | | | |
| Chlordane | < 2.2 | U | 20 | 2.2 | ug/Kg | | | |
| SURROGATES | | | | | | | | |
| Decachlorobiphenyl | 11.11 | 56 % | 30 - 150 | | SPK: 20 | | | |
| Tetrachloro-m-xylene | 7.45 | 37 % | 30 - 150 | | SPK: 20 | | | |
| 6 | | 5.5 | | | | | 20 | |

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-04

Client ID:

TP-6D

Date Collected: Date Analyzed: 8/9/02

8/20/02

Date Extracted: 8/14/02

Dilution:

Analytical Method:

8081

% Moisture:

26.0

Date Received:

8/9/02

Matrix:

File ID:

SOIL

3PS6998.D

Instrument ID:

ECD3

Analytical Run ID:

3PS0816

Associated Blank:

| | | | A.1. | | | | |
|----------------------|---------------|------|----------|------|---------|-----|---------|
| Parameter | Concentration | C | RDL | MDL | Units | | |
| TARGETS | | | | | | • | |
| alpha-BHC | < 1.6 | U | 2.3 | 1.6 | ug/Kg | | - |
| beta-BHC | < 0.13 | U | 2.3 | 0.13 | ug/Kg | | (4) |
| delta-BHC | < 0.27 | U | 2.3 | 0.27 | ug/Kg | -3 | |
| gamma-BHC (Lindane) | < 0.13 | U | 2.3 | 0.13 | ug/Kg | y # | |
| Heptachlor | < 1.3 | U | 2.3 | 1.3 | ug/Kg | | 1 -3 -5 |
| 'Aldrin | < 0.13 | U | 2.3 | 0.13 | ug/Kg | | 8 *, |
| Heptachlor epoxide | < 0.40 | U | 2.3 | 0.40 | ug/Kg | 12 | |
| Endosulfan I | < 0.67 | U | 2.3 | 0.67 | ug/Kg | | |
| Dieldrin | < 0.13 | U | 2.3 | 0.13 | ug/Kg | | ** |
| 4,4'-DDE | < 0.27 | U | 2.3 | 0.27 | ug/Kg | | |
| Endrin | < 1.1 | U | 2.3 | 1.1. | ug/Kg | | |
| Endosulfan II | < 0.40 | U | 2.3 | 0.40 | ug/Kg | | |
| 4,4'-DDD | < 0.27 | U | 2.3 | 0.27 | ug/Kg | | |
| Endosulfan sulfate | < 0.81 | U | 2.3 | 0.81 | ug/Kg | | |
| 4,4'-DDT | < 0.27 | U | 2.3 | 0.27 | ug/Kg | | |
| Methoxychlor | < 0.13 | U | 2.3 | 0.13 | ug/Kg | | |
| Endrin ketone | < 0.13 | U | 2.3 | 0.13 | ug/Kg | | |
| Endrin aldehyde | < 1.1 | U | 2.3 | 1.1 | ug/Kg | | |
| alpha-Chlordane | < 0.40 | U | 2.3 | 0.40 | ug/Kg | | |
| gamma-Chlordane | < 0.40 | U | 2.3 | 0.40 | ug/Kg | | 4. |
| Toxaphene | < 4.3 | U | 23 | 4.3 | ug/Kg | | 2 |
| Chlordane | < 2.6 | U | 23 | 2.6 | ug/Kg | | |
| SURROGATES | | | | | | *) | |
| Decachlorobiphenyl | 16.42 | 82 % | 30 - 150 | | SPK: 20 | | |
| Tetrachloro-m-xylene | 12.88 | 64 % | 30 - 150 | | SPK: 20 | | |
| | | 96 | | | | | |

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-08

Client ID:

TP-13

Date Collected:

8/9/02

Date Analyzed:

8/20/02 8/14/02

Date Extracted: Dilution:

Analytical Method:

8081

gamma-BHC (Lindane)

Date Received:

8/9/02

Matrix:

1.7

SOIL

File ID:

3PS7002.D

Instrument ID:

0.10

ECD3

Analytical Run ID:

3PS0816

ug/Kg

| % Moisture: | 4.0 | 3 | Assoc | iated Blank: | · · | |
|-------------|-------------|-------|-------|--------------|-------|--|
| Parameter | Concentrati | ion C | RDL | MDL | Units | |
| TARGETS | | - | | | | |
| alpha-BHC | < 1.2 | U | 1.7 | 1.2 | ug/Kg | |
| beta-BHC | < 0.10 | U | 1.7 | 0.10 | ug/Kg | |
| delta-BHC | < 0.21 | U | 1.7 | 0.21 | ug/Kg | |

Heptachlor U 1.7 ug/Kg < 1.0 1.0 Aldrin < 0.10 U 1.7 0.10 ug/Kg Heptachlor epoxide < 0.31 U 1.7 0.31 ug/Kg Endosulfan I < 0.51 U 1.7 0.51 ug/Kg

U

< 0.10

Dieldrin U 0.10 ug/Kg < 0.10 1.7 4,4'-DDE < 0.21 U 1.7 0.21 ug/Kg Endrin 0.82 < 0.82 U 1.7 ug/Kg

Endosulfan II 1.7 < 0.31 U-0.31 ug/Kg 4,4'-DDD < 0.21 U 1.7 0.21 ug/Kg Endosulfan sulfate < 0.62 U 1.7 0.62 ug/Kg

4,4'-DDT ug/Kg < 0.21U 1.7 0.21 Methoxychlor 1.7 0.10 ug/Kg < 0.10 U Endrin ketone < 0.10 U 0.10 ug/Kg 1.7-

Endrin aldehyde < 0.82 U 1.7 0.82 ug/Kg alpha-Chlordane < 0.31 U 1.7 0.31 ug/Kg gamma-Chlordane < 0.31 U 1.7 0.31 ug/Kg

Toxaphene < 3.3 U 17 3.3 ug/Kg Chlordane < 2.0 U 17 2.0 ug/Kg

SURROGATES Decachlorobiphenyl SPK: 20 12.34 62 % 30 - 150Tetrachloro-m-xylene 60 % 12.07

30 - 150 SPK: 20

SDG No.: P3702-01

Client: PMK Group

Sample ID:

P3702-09

Client ID:

TP-10

Date Collected:

8/9/02

Date Received: Matrix:

8/9/02

Date Analyzed:

8/20/02

SOIL

Date Extracted: 8/14/02

File ID:

3PS7003.D

Dilution:

Instrument ID:

ECD3

Analytical Method:

8081

Analytical Run ID:

% Moisture:

24.0

Associated Blank:

3PS0816

| TARGETS alpha-BHC | | | | | | | | |
|----------------------|--------|------|---|---------|------|---------|---|-----|
| alpha-BHC | | | | | | | | |
| | < 1.6 | U | | 2.2 | 1.6 | ug/Kg | | - 9 |
| beta-BHC | < 0.13 | U | | 2.2 | 0.13 | ug/Kg | | |
| delta-BHC | < 0.26 | U | | 2.2 | 0.26 | ug/Kg | | |
| gamma-BHC (Lindane) | < 0.13 | U | × | 2.2 | 0.13 | ug/Kg | | |
| Heptachlor | < 1.3 | , U | | 2.2 | 1.3 | ug/Kg | | |
| Aldrin | < 0.13 | U | | 2.2 | 0.13 | ug/Kg | | |
| Heptachlor epoxide | < 0.39 | U | | 2.2 | 0.39 | ug/Kg | | |
| Endosulfan I | < 0.65 | U | | 2.2 | 0.65 | ug/Kg | | |
| Dieldrin | < 0.13 | U | | 2.2 | 0.13 | ug/Kg | | |
| 4,4'-DDE | < 0.26 | U | | 2.2 | 0.26 | ug/Kg | | |
| Endrin | < 1.0 | U | | 2.2 | 1.0 | ug/Kg | | |
| Endosulfan II | < 0.39 | U | | 2.2 | 0.39 | ug/Kg | | |
| 4,4'-DDD | < 0.26 | U | | 2.2 | 0.26 | ug/Kg | | |
| Endosulfan sulfate | < 0.78 | U | | 2.2 | 0.78 | ug/Kg | | |
| 4,4'-DDT | < 0.26 | U | | 2.2 | 0.26 | ug/Kg | | |
| Methoxychlor | < 0.13 | U | | 2.2 | 0.13 | ug/Kg | | |
| Endrin ketone | < 0.13 | U | | 2.2 | 0.13 | ug/Kg | | |
| Endrin aldehyde | < 1.0 | U | | 2.2 | 1.0 | ug/Kg | | |
| alpha-Chlordane | < 0.39 | U | | 2.2 | 0.39 | ug/Kg | | |
| gamma-Chlordane | < 0.39 | U | | 2.2 | 0.39 | ug/Kg | | |
| Toxaphene | < 4.2 | U | | 22 | 4.2 | ug/Kg | | |
| Chlordane | < 2.5 | U | | 22 | 2.5 | ug/Kg | | |
| SURROGATES | | | | | | | | |
| Decachlorobiphenyl | 8.4 | 42 % | | 30 - 15 | 50 | SPK: 20 | | |
| Tetrachloro-m-xylene | 7.55 | 38 % | | 30 - 15 | 50 | SPK: 20 | * | |

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-10

Client ID:

TP-10D

Date Collected:

8/9/02

Date Analyzed:

8/20/02

Date Extracted:

% Moisture:

Dilution:

8/14/02

Analytical Method:

I

8081 21.0

Date Received:

8/9/02

Matrix: File ID:

SOIL

3PS7004.D

Instrument ID:

ECD3

Associated Blank:

3PS0816 Analytical Run ID:

| · - | | | 2 | | | | | | | |
|----------------------|-------------|-------|----------|------|----------------|---|------------|--|--|--|
| Parameter | Concentrat | ion C | RDL | MDL | Units | | G 6. 29 | | | |
| TARGETS alpha-BHC | < 1.5 | U | 2.1 | 1.5 | ug/Kg | | | | | |
| beta-BHC | < 0.13 | U | 2.1 | 0.13 | ug/Kg | | | | | |
| delta-BHC | < 0.15 | U | 2.1 | 0.15 | ug/Kg ug/Kg | | | | | |
| gamma-BHC (Lindane) | < 0.13 | Ū | 2.1 | 0.13 | ug/Kg | | | | | |
| Heptachlor | < 1.3 | U | 2.1 | 1.3 | ug/Kg | | 7 | | | |
| Aldrin | < 0.13 | U | 2.1 | 0.13 | ug/Kg | | 141 | | | |
| Heptachlor epoxide | < 0.38 | U | 2.1 | 0.38 | ug/Kg | | | | | |
| Endosulfan I | < 0.63 | U | 2.1 | 0.63 | ug/Kg | | | | | |
| Dieldrin | < 0.13 | Ū | 2.1 | 0.13 | ug/Kg | | | | | |
| 4,4'-DDE | < 0.25 | U | 2.1 | 0.25 | ug/Kg | | | | | |
| Endrin | < 1.0 | U | 2.1 | 1.0 | ug/Kg | | | | | |
| Endosulfan II | < 0.38 | U | 2.1 | 0.38 | ug/Kg | 9 | | | | |
| 4,4'-DDD | < 0.25 | U | 2.1 | 0.25 | ug/Kg | | | | | |
| Endosulfan sulfate | < 0.76 | T . | 2.1 | 0.76 | ug/Kg | | | | | |
| 4,4'-DDT | < 0.25 | U | 2.1 | 0.25 | ug/Kg | | | | | |
| Methoxychlor | < 0.13 | U | 2.1 | 0.13 | ug/Kg | | | | | |
| Endrin ketone | < 0.13 | U | 2.1 | 0.13 | ug/Kg | | | | | |
| Endrin aldehyde | < 1.0 | U | 2.1 | 1.0 | ug/Kg | | | | | |
| alpha-Chlordane | < 0.38 | U | 2.1 | 0.38 | ug/Kg | | | | | |
| gamma-Chlordane | < 0.38 | U | 2.1 | 0.38 | ug/Kg | | | | | |
| Toxaphene | < 4.0 | U - | 21 | 4.0 | ug/Kg | | | | | |
| Chlordane | < 2.4 | U | 21 | 2.4 | ug/Kg | | | | | |
| SURROGATES | | | | | -88 | | | | | |
| Decachlorobiphenyl | 8.53 | 43 % | 30 - 150 | | SPK: 20 | | N. | | | |
| Tetrachloro-m-xylene | 8.67 | 43 % | 30 - 150 | | SPK: 20 | | 4 | | | |
| | | 147 | | | | | | | | |

PCB SW-846

SDG No.: P3702-01

Client:

PMK Group

Sample ID:

P3702-01

Client ID:

TP-31

Date Collected:

8/9/02 8/19/02

Date Analyzed: Date Extracted:

8/14/02 T

Dilution:

8082

% Moisture:

Analytical Method: 12.0 Date Received:

Matrix:

File ID:

Instrument ID:

Analytical Run ID:

Associated Blank:

8/9/02

SOIL 4PC8397.D

ECD4

4PC0805

| Parameter | | ntrati | on C | | RDL | MDL | Units | | | | |
|----------------------|-----------|--------|------|-----|----------|-----|---------|----|-----|----|----|
| ARGEIS | | | | | | | | | | | _ |
| AROCLOR 1016 | < 5.9 | 5 | U | 185 | 19 | 5.9 | ug/Kg | | | | |
| AROCLOR 1221 | < 1.5 | | U | | 19 | 1.5 | ug/Kg | | | | |
| AROCLOR 1232 | < 9.0 | | U | | 19 | 9.0 | ug/Kg | | 9 9 | | |
| AROCLOR 1242 | < 2.5 | | U | | 19 | 2.5 | ug/Kg | 9 | | | 12 |
| ' AROCLOR 1248 | < 6.2 | | U | | 19 | 6.2 | ug/Kg | | | 33 | = |
| ROCLOR 1254 | < 12 | | · U | | . 19 | 12 | ug/Kg | | | | |
| AROCLOR 1260 | < 2.3 | * | U | | 19 | 2.3 | ug/Kg | 9 | | | |
| SURROGATES | | | 19 | | | | | 14 | | | |
| 'etrachloro-m-xylene | 17.02 | | 85 % | 6 | 24 - 151 | | SPK: 20 | T. | | | |
| Decachlorobiphenyl | 15.55 | | 78 % | 6 | 24 - 151 | | SPK: 20 | | | | |
| 14 | | 4.1 | | | | | | | | | |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-02

Client ID:

TP-33

Date Collected:

8/9/02

Date Analyzed:

8/19/02

Date Extracted:

8/14/02

Dilution:

Analytical Method: 8082

% Moisture:

 $10.\overline{0}$

Date Received:

8/9/02

Matrix:

SOIL

File ID:

4PC8398.D

Instrument ID: Analytical Run ID: ECD4

Associated Blank:

4PC0805 PB081402-06 B

| Parameter | Concentra | tion C | RDL | MDL | Units | | |
|----------------------|-----------|--------|----------|-----|---------|---|-----|
| ARGEIS | | | | | | | 7 |
| AROCLOR 1016 | < 5.7 | U | 19 | 5.7 | ug/Kg | | |
| AROCLOR 1221 | < 1.4 | - U | 19 | 1.4 | ug/Kg | | 14 |
| AROCLOR 1232 | < 8.8 | U | 19 | 8.8 | ug/Kg | | |
| AROCLOR 1242 | < 2.4 | U | 19 | 2.4 | ug/Kg | | 8 |
| ROCLOR 1248 | < 6.1 | Ŭ | 19 | 6.1 | ug/Kg | | 676 |
| ROCLOR 1254 | < 12 | U | 19 | 12 | ug/Kg | 4 | |
| AROCLOR 1260 | < 2.2 | U | 19 | 2.2 | ug/Kg | | |
| URROGATES | | | 7 | | | | |
| 'etrachloro-m-xylene | 17.74 | 89 % | 24 - 151 | | SPK: 20 | | |
| Decachlorobiphenyl | 15.63 | 78 % | 24 - 151 | | SPK: 20 | | |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-03

Client ID:

TP-34

Date Collected:

8/9/02

Date Analyzed:

8/19/02

Date Extracted:

8/14/02

Dilution:

Analytical Method: 8082

% Moisture:

15.0

Date Received:

Matrix:

File ID:

Instrument ID: Analytical Run ID:

Associated Blank:

8/9/02

SOIL

4PC8399.D

ECD4

4PC0805

| Parameter | Concentration | C | | RDL | MDL · | Units | | | |
|---------------------|---------------|-------|----|----------|-------|---------|-----|-------|---|
| ARGEIS | | | _ | | | | | | - |
| AROCLOR 1016 | < 6.1 | U | *1 | 20 | 6.1 | ug/Kg | | | |
| \AROCLOR 1221 | < 1.5 | U | | 20 | 1.5 | ug/Kg | | | |
| ROCLOR 1232 | < 9.4 | U | | 20 | 9.4 | ug/Kg | 130 | | |
| AROCLOR 1242 | < 2.6 | U | | 20 | 2.6 | ug/Kg | | | |
| ROCLOR 1248 | < 6.4 | U | | 20 | 6.4 | ug/Kg | | , (*) | |
| ROCLOR 1254 | 110 | | | 20 | 12 | ug/Kg | | | |
| AROCLOR 1260 | < 2.3 | U | | 20 | 2.3 | ug/Kg | V | | |
| URROGATES | | | | | | | | 9 9 | |
| etrachloro-m-xylene | 16.78 | 84 % | | 24 - 151 | | SPK: 20 | | | |
| Decachlorobiphenyl | 23.48 | 117 % | | 24 - 151 | | SPK: 20 | | | |
| | | | | | | | | | |

PCB SW-846

SDG No.: P3702-01

Client:

PMK Group

Sample ID:

P3702-04

Client ID:

TP-6D

Date Collected:

8/9/02

Date Analyzed:

8/19/02

Date Extracted: 8/14/02

Dilution:

Analytical Method:

% Moisture:

8082 26.0

Date Received:

Matrix:

File ID:

Instrument ID:

Analytical Run ID: Associated Blank:

8/9/02

SOIL

4PC8400.D

ECD4

4PC0805

| Parameter | Concentr | ation C | RDL . | MDL | Units | | |
|---------------------|----------|---------------------------------------|----------|-----|---------|----|------|
| ARGEIS | | · · · · · · · · · · · · · · · · · · · | | | | | |
| AROCLOR 1016 | < 7:0 | U | 23 | 7.0 | ug/Kg | | |
| AROCLOR 1221 | < 1.8 | U | 23 | 1.8 | ug/Kg | | |
| LROCLOR 1232 | < 11 | U | 23 . | 11 | ug/Kg | 47 | |
| AROCLOR 1242 | < 3.0 | U | 23 | 3.0 | ug/Kg | | 7 9 |
| \ROCLOR 1248 | < 7.4 | Ŭ | 23 | 7.4 | ug/Kg | | 5 35 |
| AROCLOR 1254 | 430 | | 23 | 14 | ug/Kg | | |
| AROCLOR 1260 | < 2.7 | U | 23 | 2.7 | ug/Kg | | |
| URROGATES | 100 | | | | | | |
| etrachloro-m-xylene | 17.84 | 89 % | 24 - 151 | | SPK: 20 | | |
| Decachlorobiphenyl | 15.07 | 75 % | 24 - 151 | K . | SPK: 20 | | |
| 7.5 | (6) | | | | | | |

PCB SW-846

SDG No .:

P3702-01

Client:

PMK Group

Sample ID:

P3702-05

Client ID:

TP-6

Date Collected:

8/9/02

Date Analyzed:

8/19/02

Date Extracted:

8/14/02

Dilution:

8082

Analytical Method:

% Moisture: $18.\overline{0}$

Date Received: Matrix:

File ID:

Instrument ID:

Analytical Run ID: Associated Blank:

8/9/02

SOIL

4PC8401.D

ECD4

4PC0805

| Danamatan | <u> </u> | · | DDI | MDI | TT-21- | |
|---------------------|------------|-------|----------|------|---------|---|
| Parameter | Concentrat | ion C | RDL | MDL | Units | |
| ARGEIS | | | | | | |
| AROCLOR 1016 | < 6.3 | U | 21 | 6.3 | ug/Kg | |
| AROCLOR 1221 | < 1.6 | U | 21 | 1.6 | ug/Kg | |
| AROCLOR 1232 | < 9.7 | U | 21 | 9.7 | ug/Kg | , |
| AROCLOR 1242 | < 2.7 | U | 21 | 2.7 | ug/Kg | |
| \ROCLOR 1248 | < 6.7 | U | 21 | 6.7 | ug/Kg | |
| AROCLOR 1254 | 2400 | E | 21 | . 13 | ug/Kg | |
| AROCLOR 1260 | < 2.4 | U | 21 | 2.4 | ug/Kg | |
| URROGATES | | | | | | |
| etrachloro-m-xylene | 15.44 | 77 % | 24 - 151 | | SPK: 20 | |
| Decachlorobiphenyl | 18.13 | 91 % | 24 - 151 | 39.0 | SPK: 20 | |
| ** | | | | | | |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-05

Client ID:

TP-6DL

Date Collected:

8/9/02

Date Analyzed: Date Extracted:

8/20/02 8/14/02

Dilution:

10

Analytical Method: 8082

% Moisture:

 $18.\overline{0}$

Date Received:

Matrix:

SOIL

8/9/02

File ID:

4PC8430.D

Instrument ID:

ECD4

Analytical Run ID:

4PC0805

Associated Blank:

| Parameter | Concentra | tion C | RDL | MDL | Units | 7 | |
|---------------------|-----------|--------|----------|-----|---------|-----|-----|
| ARGEIS | | | | | | | |
| AROCLOR 1016 | < 63 | U | 210 | 63 | ug/Kg | | |
| AROCLOR 1221 | < 16 | U | 210 | 16 | ug/Kg | | |
| ROCLOR 1232 | < 97 | Ŭ | 210 | 97 | ug/Kg | | |
| AROCLOR 1242 | < 27 | U | 210 | 27 | ug/Kg | | |
| \ROCLOR 1248 | < 67 | ັບ | 210 | 67 | ug/Kg | +32 | |
| ROCLOR 1254 | 2600 | | 210 | 130 | ug/Kg | * | |
| AROCLOR 1260 | < 24 | U | 210 | 24 | ug/Kg | | |
| TURROGATES | | | 4 | | | | |
| etrachloro-m-xylene | 19.4 | 97 % | 24 - 151 | × | SPK: 20 | | |
| Decachlorobiphenyl | 16.8 | 84 % | 24 - 151 | 20 | SPK: 20 | * | |
| | | | | | | | 191 |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-06

Client ID:

TP-4

Date Collected:

8/9/02

Date Analyzed: Date Extracted: 8/14/02

8/19/02

Dilution:

Analytical Method:

8082

% Moisture:

24.0

Date Received:

Matrix:

8/9/02 SOIL

File ID:

4PC8402.D

Instrument ID:

ECD4

Analytical Run ID:

4PC0805

Associated Blank:

| Parameter | Concentrati | on C | RDL | MDL | Units | | 7 |
|----------------------|-------------|------|----------|-----|---------|----|---|
| ARGEIS | | | | | | | |
| AROCLOR 1016 | < 6.8 | U | 22 | 6.8 | ug/Kg | | |
| AROCLOR 1221 | < 1.7 | U | 22 | 1.7 | ug/Kg | 1 | |
| ROCLOR 1232 | < 11 | U | 22 | 11 | ug/Kg | | |
| AROCLOR 1242 | < 2.9 | U | 22 | 2.9 | ug/Kg | * | |
| ROCLOR 1248 | < 7.2 | Ü | 22 | 7.2 | ug/Kg | 2 | |
| ROCLOR 1254 | 2600 | E | 22 | 14 | ug/Kg | | |
| AROCLOR 1260 | < 2.6 | U | 22 | 2.6 | ug/Kg | Ä. | |
| URROGATES | | 'A | | | | * | |
| 'etrachloro-m-xylene | 13.91 | 70 % | 24 - 151 | | SPK: 20 | | |
| Decachlorobiphenyl | 19.08 | 95 % | 24 - 151 | | SPK: 20 | | |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-06

Client ID:

TP-4DL

Date Collected:

8/9/02

Date Analyzed:

8/20/02 8/14/02

Date Extracted: Dilution:

10

Analytical Method: 8082

% Moisture:

24.0

Date Received:

8/9/02

Matrix:

SOIL

File ID:

4PC8431.D

Instrument ID:

ECD4

Analytical Run ID: Associated Blank:

4PC0805 PB081402-06 B

| Parameter | Concent | ration C | RDL | MDL | Units | , | * |
|---------------------|---------|----------|----------|-----|---------|---|---|
| ARGEIS . | | | | | | | |
| AROCLOR 1016 | < 68 | U | 220 | 68 | ug/Kg | | |
| AROCLOR 1221 | < 17 | U × | 220 | 17 | ug/Kg | | |
| AROCLOR 1232 | < 110 | U | 220 | 110 | ug/Kg | 8 | |
| AROCLOR 1242 | < 29 | U | 220 | 29 | ug/Kg | | |
| \ROCLOR 1248 | < 72 | Ū | 220 | 72 | ug/Kg | | |
| ROCLOR 1254 | 2800 | | 220 | 140 | ug/Kg | | |
| AROCLOR 1260 | < 26 | U | 220 | 26 | ug/Kg | | |
| CURROGATES | | | | | | | |
| etrachloro-m-xylene | 20.5 | 103 % | 24 - 151 | | SPK: 20 | | |
| Decachlorobiphenyl | 18.9 | 95 % | 24 - 151 | | SPK: 20 | | |
| | | * | | | | | |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-07

Client ID:

TP-4D

Date Collected:

8/9/02

Date Analyzed:

8/19/02 Date Extracted: 8/14/02

Dilution:

T

Analytical Method: 8082 % Moisture:

 $20.\overline{0}$

Date Received:

Matrix:

8/9/02 SOIL

File ID:

4PC8403.D

Instrument ID:

ECD4

Analytical Run ID:

4PC0805

PB081402-06 B Associated Blank:

| Parameter | Concentration | on C | RDL | MDL | Units | | |
|---------------------|---------------|------|----------|-----|---------|---|------|
| ARGETS | | - | | | | | |
| AROCLOR 1016 | < 6.4 | U | 21 | 6.4 | ug/Kg | • | , |
| AROCLOR 1221 | < 1.6 | U | 21 | 1.6 | ug/Kg | | |
| AROCLOR 1232 | < 9.9 | U | 21 | 9.9 | ug/Kg | | |
| AROCLOR 1242 | < 2.7 | U | 21 | 2.7 | ug/Kg | | |
| AROCLOR 1248 | < 6.8 | Ŭ | 21 | 6.8 | ug/Kg | | 1134 |
| ROCLOR 1254 | < 13 | U | 21 | 13 | ug/Kg | | |
| AROCLOR 1260 | < 2.5 | U | 21 | 2.5 | ug/Kg | | |
| URROGATES | | | | | | | |
| etrachloro-m-xylene | 17.11 | 86 % | 24 - 151 | | SPK: 20 | | |
| Decachlorobiphenyl | 18.58 | 93 % | 24 - 151 | | SPK: 20 | | |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-08

Client ID:

TP-13

Date Collected:

8/9/02

Date Analyzed:

8/19/02 8/14/02

Date Extracted: Dilution:

I

Analytical Method: 8082

% Moisture:

 4.0^{-}

Date Received:

Matrix:

File ID:

8/9/02 SOIL

4PC8404.D ECD4

Instrument ID: Analytical Run ID:

4PC0805

Associated Blank:

| Parameter | Concentr | ation | C | | RDI | | | MDL | | Units | | | | |
|---------------------|-----------|-------|------|----|------|-----|----|-----|----|---------|---|---|---|---|
| ARGEIS | | _ | | | | | ù. | | _ | | | - | | |
| AROCLOR 1016 | < 5.3 | | U | | 17 | | | 5.3 | | ug/Kg | | | | |
| AROCLOR 1221 | < 1.3 | | U | | 17 | | | 1.3 | | ug/Kg | | | | |
| AROCLOR 1232 | < 8.2 | | U | | 17 | | | 8.2 | | ug/Kg | | | | |
| AROCLOR 1242 | < 2.3 | | U | | 17 | × | | 2.3 | | ug/Kg | | | | |
| ROCLOR 1248 | < 5.7 | | Ü | .1 | 17 | | | 5.7 | | ug/Kg | | | - | |
| ROCLOR 1254 | 43 | | | | 17 | 5 | | 11 | | ug/Kg | | | | 4 |
| AROCLOR 1260 | < 2.1 | | U | | 17 | | | 2.1 | *> | ug/Kg | | | | |
| URROGATES | | | * | | | | | | | + | | | | |
| etrachloro-m-xylene | 15.37 | | 77 % | | 24 - | 151 | | | | SPK: 20 | | | | |
| Decachlorobiphenyl | 13.81 | | 69 % | | 24 - | 151 | | | | SPK: 20 | 0 | | | |
| | | | | | | | | | | | | | | |

Chemtech Consulting Group

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-09

Client ID:

TP-10

Date Collected:

8/9/02

8/19/02

Date Analyzed: Date Extracted:

8/14/02

Dilution:

Analytical Method: 8082

% Moisture:

24.0

Date Received:

8/9/02

Matrix:

SOIL

File ID:

4PC8405.D

Instrument ID:

ECD4

Analytical Run ID:

4PC0805

Associated Blank:

| Parameter | Concentrat | tion C | RDL | MDL | Units | (5.7 |
|--|------------|--------|----------|-----|---------|------|
| ARGETS | | | | | | |
| AROCLOR 1016 | < 6.8 | U. | 22 | 6.8 | ug/Kg | |
| AROCLOR 1221 | < 1.7 | U | 22 | 1.7 | ug/Kg | |
| ROCLOR 1232 | < 10 | U | 22 | 10 | ug/Kg | |
| AROCLOR 1242 | < 2.9 | U | 22 | 2.9 | ug/Kg | |
| \rOCLOR 1248 | < 7.2 | Ù | 22 | 7.2 | ug/Kg | D |
| ROCLOR 1254 | 560 | E | 22 | 14 | ug/Kg | (4 |
| AROCLOR 1260 | < 2.6 | U | 22 | 2.6 | ug/Kg | |
| URROGATES | | | | | 20 To | |
| etrachloro-m-xylene | 13.63 | 68 % | 24 - 151 | | SPK: 20 | |
| Decachlorobiphenyl | 14.81 | 74 % | 24 - 151 | | SPK: 20 | |
| at the second se | | | | | | |

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-09

Client ID:

TP-10DL

Date Collected:

8/9/02

Date Analyzed:

8/20/02 8/14/02

Date Extracted: Dilution:

10

ition:

Analytical Method: 8082

% Moisture:

 $24.\overline{0}$

Date Received:

Matrix

Matrix:

8/9/02 SOIL

File ID:

4PC8432.D

Instrument ID:

ECD4

Analytical Run ID:

4PC0805

Associated Blank:

| Parameter | Concentra | tion C | RDL | MDL | Units | | | | |
|---------------------|-----------|--------|----------|-----|---------|---|------|----|---|
| ARGEIS | | | | | | | _ | | |
| AROCLOR 1016 | < 68 | U | 220 | 68 | ug/Kg | | | | |
| AROCLOR 1221 | < 17 | U | 220 | 17 | ug/Kg | | | | |
| ROCLOR 1232 | < 100 | U | 220 | 100 | ug/Kg | | | | + |
| AROCLOR 1242 | < 29 | U | 220 | 29 | ug/Kg | | | | |
| ¹\ROCLOR 1248 | < 72 | U | 220 | 72 | ug/Kg | | | 72 | |
| ROCLOR 1254 | 650 | | 220 | 140 | ug/Kg | | | 7. | |
| AROCLOR 1260 | < 26 | U | 220 | 26 | ug/Kg | | | | |
| URROGATES | | | | 2 | | | | | |
| etrachloro-m-xylene | 20.7 | 104 % | 24 - 151 | | SPK: 20 | | | | |
| Decachlorobiphenyl | 13.5 | 68 % | 24 - 151 | | SPK: 20 | * | | | |
| 171 | | | | | | | 1.5% | | |

Chemtech Consulting Group

PCB SW-846

SDG No.:

P3702-01

Client:

PMK Group

Sample ID:

P3702-10

Client ID:

TP-10D

Date Collected:

8/9/02

8/19/02

Date Analyzed: Date Extracted: 8/14/02

Dilution:

Analytical Method: 8082

% Moisture:

 $21.\overline{0}$

Date Received:

8/9/02

Matrix:

SOIL

File ID:

4PC8406.D

Instrument ID:

ECD4

Analytical Run ID:

4PC0805

Associated Blank:

| Parameter | Concentrat | ion C | RDL | MDL | Units | |
|---------------------|------------|-------|----------|-----|---------|-----|
| TARGETS | | | | | | |
| AROCLOR 1016 | < 6.6 | U | 21 | 6.6 | ug/Kg | 16 |
| AROCLOR 1221 | < 1.6 | U | 21 | 1.6 | ug/Kg | |
| ROCLOR 1232 | < 10 | U | 21 | 10 | ug/Kg | |
| AROCLOR 1242 | < 2.8 | U | 21 | 2.8 | ug/Kg | |
| AROCLOR 1248 | < 6.9 | Ü | 21 | 6.9 | ug/Kg | 1 0 |
| AROCLOR 1254 | < 13 | U | 21 | 13 | ug/Kg | • |
| AROCLOR 1260 | < 2.5 | U | 21 | 2.5 | ug/Kg | |
| CURROGATES | | | | | 9 10 | |
| etrachloro-m-xylene | 17.72 | 89 % | 24 - 151 | | SPK: 20 | (6) |
| Decachlorobiphenyl | 15.9 | 79 % | 24 - 151 | | SPK: 20 | 2 |
| | | | | | | |

| Chent: | PMK Group | | | | <u>س</u> ی | G No.: P3 | 5702 | | - | Men | nod Type: SW846 | |
|------------|----------------|----------|----------|----------|------------|-----------|---------------|-----------|------------|-------|-------------------|-------|
| | | | 21 | | | | | id. | | | | |
| | e ID: P3702-01 | , | - | 1. | | | Client | ID: TP-3 | 1 | | | |
| Contr | act: PMK Grou | p | (*) | Lab C | ode: | CHEMED | . (| lase No.: | | | SAS No.: P3702 | 19.11 |
| Matri | x: SOIL | | Date R | eceived: | 8/9/02 | 2 | Level: | LOW | | | | · , |
| % Soli | ids: 88 | 3 | | | | | 2) 24 - 4) | (*) | | ri. | | |
| CAS No. | Analyte | Concer | itration | Units | С | Qual | M | DL | Instrume | nt ID | Analytical Run | |
| 7:140-36-0 | Antimony | | 7.2 | mg/Kg | | | P | 0.26 | P1 | | P182602 | |
| 40-38-2 | Arsenic | | 37.9 | mg/Kg | | | P | 0.30 | P1 | | P182602 | |
| 7.440=41-7 | Beryllium | 66 | 0.57 | mg/Kg | . В | E | P | 0.01 | P1 | | P182602 | |
| 40-43-9 | Cadmium | 1 | 0.74 | mg/Kg | | | P | 0.06 | P1 | | P182602 | |
| , +40-47-3 | Chromium | | 11.8 | mg/Kg | | 9 | P | 0.08 | P1 | | P182602 | |
| 7440-50-8 | Copper | | 74.1 | mg/Kg | | | P | 0.17 | P1 | 41 | P182602 | |
| 39-92-1 | Lead | | 197 | mg/Kg | | | P | 0.20 | P1 | | P182602 | |
| 7439-97-6 | Mercury | | 0.10 | mg/Kg | 10 | | CV | 0.01 | CVI | 14 | 081602C | ,2 |
| 40-02-0 | Nickel | | 10.0 | mg/Kg | . 4 | | P | 0.25 | P1 | 4 | P182602 | , ta |
| 82-49-2 | Selenium | | 2.6 | mg/Kg | | | P | 0.38 | P1 | | P182602 | |
| 7440-22-4 | Silver | : •: | 1.5 | mg/Kg | | | P | 0.42 | P1 | | P182602 | |
| 40-28-0 | Thallium · | 8 | 0.66 | mg/Kg | U | | P. | 0.66 | P1 | | P182602 | |
| 7440-66-6 | Zinc | | 52.5 | mg/Kg | | | P | 0.07 | P1 | | P182602 | |
| Jolor Bei | ore: BROWN | | | Clarity | Befo | re: | | - | Texture: | MEI | DIUM | |
| Color Aft | ¥1 | <i>T</i> | F. | Clarity | Afte | r: | (5) E | | Artifacts: | 4.4 | .' . | |

| | | * | 1160 | .*. | | | | | | | ¥* | |
|-----------|----------------|-------|----------|---------------|--------|--------|--------|-----------|------------|-------|-------------------|----|
| Sampl | e ID: P3702-02 | | | $\overline{}$ | | 5. | Client | ID: TP-33 | | | | - |
| | act: PMK Group | | | Lab C | ode: | CHEMED | | Case No.: | | S | SAS No.: P3702 | |
| Matrix | c: SOIL | | Date R | eceived: | 8/9/02 | 2 | Level | LOW | | ; | | |
| % Soli | ids: 90 | | | r v | | Ţ. | | | £ - ** | * | | ,, |
| CAS No. | Analyte | Conce | ntration | Units | С | Qual | M | DL | Instrumen | t ID | Analytical Run | |
| 7440-36-0 | Antimony | v . | 0.26 | mg/Kg | U | | · P | 0.26 | P1 - | | P182602 | |
| 40-38-2 | Arsenic | | 7.9 | mg/Kg | | * | P | 0.29 | P1 | ÷ | P182602 | |
| 440-41-7 | Beryllium | | 0.58 | mg/Kg | | E | P | 0.01 | P1 | | P182602 | 20 |
| 40-43-9 | Cadmium | 4 | 0.54 | mg/Kg | В | | P | 0.06 | Pl | | P182602 | |
| -40-47-3 | Chromium | | 10.7 | mg/Kg | | | P | 0.08 | P1 | 5 | P182602 | |
| 440-50-8 | Copper | | 47.6 | mg/Kg | , | i e | P | 0.17 | PI | | P182602 | |
| 39-92-1 | Lead | | 75.5 | mg/Kg | | * | P | 0.20 | P1 | w. | P182602 | |
| 439-97-6 | Mercury | | 0.05 | mg/Kg | | | . CV | 0.01 | CV1 | | 081602C | ** |
| 40-02-0 | Nickel | | 7.3 | mg/Kg | | | P | 0.24 | P1 | | P182602 | |
| 82-49-2 | Selenium | ,34 | 0.85 | mg/Kg | | 41 | P | 0.37 | P1 | | P182602 | |
| 440-22-4 | Silver | | 1.0 | mg/Kg | В | | P | 0.41 | P1 | | P182602 | |
| 40-28-0 | Thallium | | 0.64 | mg/Kg | U | * | P | 0.64 | P1 | | P182602 | |
| 440-66-6 | Zinc | | 100 | mg/Kg | 9 | | P | 0.07 | P1 | */ | P182602 | |
| Jolor Bet | ore: BROWN | 4 | | Clarity | Befo | re: | | | Texture: | MEDIU | ЛМ | |
| Color Aft | er: YELLOW | | | Clarity | Afte | r: | | | Artifacts: | | | |

-1-INORGANIC ANALYSIS DATA PACKAGE

| Client: | Client: PMK Group | | | | SD | G No.: P3 | 702 | | Met | thod Type: SW846 | |
|------------|-------------------|--------|---------|----------|--------|-----------|------------------|-----------|---------------|-------------------|-----|
| Sampl | le ID: P3702- | 03 | | | | | Client | ID: TP-34 | | | |
| Contr | act: PMK Gro | oup | | Lab C | ode: | СНЕМЕД | | Case No.: | | SAS No.: P3702 | e . |
| Matri | x: SOIL | | Date R | eceived: | 8/9/02 | 2 | Level: | LOW | | , | - |
| % Sol | ids: 85 | | | | | | | | | 4 | ν. |
| CAS No. | Analyte | Concer | tration | Units | С | Qual | M | DL | Instrument ID | Analytical Run | - |
| 40-36-0 | Antimony | | 0.27 | mg/Kg | U | | P | 0.27 | P1 | P182602 | |
| ; +40-38-2 | Arsenic | | 7.0 | mg/Kg | | | P | 0.30 | P1 | P182602 | |
| 7440-41-7 | Beryllium | 12 | 0.58 | mg/Kg | | E | P | 0.01 | P1 | P182602 | |
| 40-43-9 | Cadmium | | 0.50 | mg/Kg | В | | P | 0.06 | P1 | P182602 | |
| 7440-47-3 | Chromium | | 11.4 | mg/Kg | | 9 | \mathbf{p}^{-} | 0.08 | P1 | P182602 | |
| 40-50-8 | Copper | 1.6 | 47.5 | mg/Kg | E 74 | | P | 0.17 | P1 | P182602 | |

P

CV

P

0.21

0.01

0.26

0.38

0.43

0.68

0.07

PI

P1

P1

Pl

P1

P1

CVI

P182602

081602C

P182602

P182602

P182602

P182602

P182602

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: Artifacts:

Comments:

39-92-1

7439-97-6

//82-49-2

7/40-22-4

40-28-0

7440-66-6

40-02-0

Lead

Mercury

Selenium

Nickel

Silver

Zinc

Thallium

67.5

0.12

6.6

1.0

0.88

0.68

97.7

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

| Campa | le ID: P3702-04 | | 1 P. | | | | Client | D: TP-61 | | | | | |
|-----------|-----------------|-------|----------|----------|--------|--------|--------|----------|------------|----------|------|-------------------|-------|
| Samp | ie ID: P3/02-04 | | | | | i i | Chent | D: 1P-01 | | | | | |
| Contr | act: PMK Grou | р | | Lab C | ode: | CHEMED | _ C | ase No.: | 9 | | SAS | No.: P3702 | |
| Matri | x: SOIL | | Date R | eceived: | 8/9/02 | | Level: | LOW | 3 | | | | |
| % Sol | ids: 74 | | _ | - | £ | 90 | | | | | | | 18 e, |
| CAS No. | Analyte | Conce | ntration | Units | С | Qual | М | DĻ | Instrume | nt ID | 1 | Analytical Run | |
| 40-36-0 | Antimony | | - 5.6 | mg/Kg | В | | P | 0.31 | 'P1 | | | P182602 | |
| 40-38-2 | Arsenic * | | 46.7 | mg/Kg | | 4 | P | 0.35 | Pl | | 9 | P182602 | |
| 44.0≐41-7 | Beryllium | | 2.4 | mg/Kg | | E | P | 0.01 | P1 | | | P182602 | * E. |
| 40-43-9 | Cadmium | | 0.48 | mg/Kg | В . | | P | 0.07 | P1 | \times | | P182602 | 4 |
| +40-47-3 | Chromium | 6 | 17.8 | mg/Kg | | | P | 0.09 | Pl | | 3 | P182602 | 7. |
| 440-50-8 | Copper | | 64.9 | mg/Kg | | | P | 0.20 | P1 | | | P182602 | |
| 39-92-1 | Lead | | 556 | mg/Kg | | | P | 0.24 | P1 | į. | | P182602 | |
| 439-97-6 | Mercury | | 0.14 | mg/Kg | - | 26 | CV | 0.01 | CV1 | | | 081602C | - |
| 40-02-0 | Nickel | | 10.3 | mg/Kg | | | P | 0.29 | Pl | | | P182602 | |
| 82-49-2 | Selenium | | 1.6 | mg/Kg | | | P | 0.44 | P1 | | ., 0 | P182602 | 40 |
| 140-22-4 | Silver | | 0.79 | mg/Kg | В | | P | 0.50 | P1 | | | P182602 | × |
| 40-28-0 | Thallium | | 0.78 | mg/Kg | U | | P | 0.78 | P1 | | | P182602 | |
| 140-66-6 | Zinc | | 90:6 | mg/Kg | | | P * | 0.08 | P1 - | | | P182602 | * |
| Color Be | fore: BROWN | | | Clarity | Befor | ·e: | | | Texture: | ME | DIUM | | |
| Color Aft | ter: YELLOW | 7 | | Clarity | After | : . | | | Artifacts: | | | | |

| Samp | le ID: P3702-0 | 5 | | | | *) | Client | ID: TP-6 | | | | |
|----------|----------------|-------|-----------|---------------|--------|--------|--------|----------|------------|--------|-------------------|-----|
| Contr | act: PMK Gro | 1p | | Lab C | ode: | CHEMED | (| ase No.: | * | SA | S No.: P3702 | 76 |
| Matri | x: SOIL | | Date R | eceived: _ | 8/9/02 | | Level: | LOW | | - | | |
| % Sol | ids: 82 | | | * , | * * | | | | | | | |
| CAS No. | Analyte | Conce | entration | Units | C | Qual | M | DL. | Instrument | ID | Analytical Run | |
| 40-36-0 | Antimony | 4 | 2.0 | mg/K.g | В | | P | 0.28 | * P1 | * | P182602 | - |
| 40-38-2 | Arsenic | | 41.4 | mg/Kg | :4.1 | | P | 0.32 | P1 | | P182602 | |
| 40=41-7 | Beryllium | | 0.65 | mg/Kg | • 1 | E | P | 0.01 | P1 | (4 | P182602 | |
| :40-43-9 | Cadmium | | 0.95 | mg/Kg | 5.11 | | P | 0.06 | P1 | | P182602 | |
| 40-47-3 | Chromium | | 13.0 | mg/Kg | (4) | | P | 0.09 | Pl | 18 | P182602 | |
| 40-50-8 | Copper | | 48.4 | mg/Kg | | | P | 0.18 | P1 | 4 | P182602 | |
| 39-92-1 | Lead | | 125 | mg/Kg | | | P | 0.22 | P1 | 2 | P182602 | |
| 39-97-6 | Mercury | | 0.09 | mg/Kg | | .* | CV | 0.01 | CV1 | | 081602C | |
| 10-02-0 | Nickel | - | 10.1 | mg/Kg | | | P | 0.27 | Pl | | P182602 | |
| 82-49-2 | Selenium | | 0.58 | mg/Kg | В | | P | 0.40 | P1 | | P182602 | -00 |
| 10-22-4 | Silver | | 0.68 | mg/Kg | В | ¥ or | P | 0.45 | Pľ | | P182602 | |
| 10-28-0 | Thallium | | 0.71 | mg/Kg | U | | P | 0.71 | P1 - | la. | P182602 | 9 |
| 40-66-6 | Zinc | . * | 187 | mg/Kg | | | P | 0.07 | P1 | | P182602 | |
| Joior Be | fore: BROWN | | | Clarity | Befo | re: | | | Texture: | MEDIUN | A | |
| Color Af | ter: YELLO | V | | Clarity | After | : | | | Artifacts: | ٠ | 43 | |

| Sampl | le ID: P3702-0 | 5 | · | | | | Client | D: TP-4 | | | x 5 | |
|-----------|----------------|------|------------|----------|------------|--------|--------|----------|------------|--------|-------------------|-----|
| Contr | act: PMK Grou | ıp - | | Lab C | ode: | СНЕМЕО | C | ase No.: | | SA | S No.: P3702 | |
| Matri | x: SOIL | - | Date Re | eceived: | 8/9/02 | * * | Level: | LOW | | × . | | |
| % Sol | ids: 76 | | 10. | | | | Na. | | | *** | Arrive | |
| CAS No. | Analyte | Con | centration | Units | C . | Qual | M | DL | Instrumen | t ID | Analytical Run | |
| 40-36-0 | Antimony | 1 | 3.7 | mg/Kg | B | | P | 0.30 | P1 | | P182602 | |
| 40-38-2 | Arsenic | | 16.6 | mg/Kg | | | P | 0.34 | P1 | | P182602 | |
| 40=41-7 | Beryllium | 34 | 0.66 | mg/Kg. | ~ | E | P | 0.01 | P1 | • | P182602 | |
| 40-43-9 | Cadmium | | 20.2 | mg/Kg | 921 | | P | 0.07 | P1 | | P182602 | če. |
| 40-47-3 | Chromium | | 81.5 | mg/Kg | | | P | 0.09 | P1 | | P182602 | |
| 40-50-8 | Copper | | 87.7 | mg/Kg | | | P | 0.20 | Pl *. | | P182602 | |
| 39-92-1 | Lead | | 245 | mg/Kg | * | | P | 0.24 | P1 | | P182602 | 5 |
| 39-97-6 | Mercury | | 0.14 | mg/Kg | · · | | CV | 0.01 | CV1 | | 081602C | |
| 40-02-0 | Nickel | 2 | 28.4 | mg/Kg | | | P | 0.29 | P1 | | P182602 | |
| 82-49-2 | Selenium | | 2.1 | mg/Kg | | 1975 | . Р | 0.43 | Pl | | P182602 | |
| 40-22-4 | Silver | | 5.9 | mg/Kg | | | P | 0.49 | P1 | | P182602 | |
| 40-28-0 | Thallium | | 0.76 | mg/Kg | U | | P | 0,76 | P1 | | P182602 | |
| 40-66-6 | Zinc | | 203 | mg/Kg | | | P | 0.08 | PI | 1 | P182602 | 10 |
| Color Be | fore: BROWN | | | Clarity | Befor | e: | | . 8 | Texture: | MEDIUM | | |
| Color Aft | ter: YELLOV | V | | Clarity | After: | | | | Artifacts: | | | |

| Sampl | le ID: P3702-07 | , | - | | 7, | | Client | ID: TP-4 | D | - | | 1 |
|-----------|-----------------|-------|-----------|----------|--------|----------|--------|----------|------------|------|-------------------|-----|
| Contr | act: PMK Grou | p | | Lab C | ode: | СНЕМЕД | | ase No. | : , | | SAS No.: P370 | 2 |
| Matri | x: SOIL | | Date R | eceived: | 8/9/02 | <u> </u> | Level: | LOW | | | | |
| % Son | ids: 80 | | _ | | | *** | 3° | | | | * 7 | · · |
| CAS No. | Analyte | Conce | entration | Units | С | Qual | M | DL | Instrumen | t ID | Analytical Run | - 4 |
| 40-36-0 | Antimony | | 0.89 | mg/Kg | В | | P | 0.28 | P1 | | P182602 | |
| 40-38-2 | Arsenic | | 2.6 | mg/Kg | | | P | 0.32 | P1 , | | P182602 | 1 |
| 440°41-7 | Beryllium | | 0.26 | mg/Kg- | В | E | P | 0.01 | P1 | 3 | P182602 | |
| .40-43-9 | Cadmium | | 0.20 | mg/Kg | В | | P | 0.06 | P1 | | P182602 | |
| 440-47-3 | Chromium | | 7.4 | mg/Kg | | | P | 0.09 | P1 *** | | P182602 | |
| 140-50-8 | Copper | * | 2.6 | mg/Kg | В | | P | 0.18 | P1 • | | P182602 | |
| 39-92-1 | Lead | | 2.8 | mg/Kg | | | P | 0.22 | P1 | | P182602 | |
| 139-97-6 | Mercury | | 0.01 | mg/Kg | U | | CV | 0.01 | CV1 | | 081602C | 0 |
| 40-02-0 | Nickel | | 2.9 | mg/Kg | В | | P | 0.27 | P1 | | P182602 | |
| 82-49-2 | Selenium | | 0.47 | mg/Kg | В | | P | 0.40 | P1 | | P182602 | |
| 40-22-4 | Silver | | 0.45 | mg/Kg | U | | P | 0.45 | P1 | | P182602 | |
| 40-28-0 | Thallium | | 0.71 | mg/Kg | U | | P | 0.71 | P1 | | P182602 | |
| 40-66-6 | Zinc | | 18.2 | mg/Kg | | | Р | 0.07 | P1 | | P182602 | |
| Jolor Bet | tore: BROWN | | | Clarity | Befo | re: | | 1.0 | Texture: | MEL | DIUM | |
| Color Aft | er: YELLOW | / | | Clarity | Afte | r: , | | | Artifacts: | | | |

| Sampl | le ID: P3702-08 | | | | | * | Client | ID: TP-1 | 3 | * | | | | |
|-----------|-----------------|-------|----------|----------|-------|--------|--------|----------|------------|------|-----|-------------------|---|-----|
| Contr | act: PMK Group |)- | · | Lab C | ode: | CHEMEI |) (| ase No.: | | | SAS | No.: P3702 | | |
| Matri | x: SOIL | 44, | Date Re | eceived: | 8/9/0 | 2 | Level: | LOW | | | | | 8 | |
| % Sol | ids: 96 | | | • | ŧ. | 5 | d U | | | | | 3.8 | • | |
| CAS No. | Analyte | Conce | ntration | Units | С | Qual | M | DL | Instrumen | t ID | 1 | Analytical Run | | |
| 40-36-0 | Antimony | | .0.43 | mg/Kg | В | | P | 0.24 | P1 | | | P182602 | | |
| 40-38-2 | Arsenic | 2 | 9.5 | mg/Kg | | 8.0 | P | 0.27 | PI | | | P182602 | | 4.0 |
| 440=41-7 | Beryllium * | | 3.3 | ıng/Kg - | - | Е | P | 0.01 | P1 | | 7. | P182602 | | |
| 40-43-9 | Cadmium | | 0.05 | mg/Kg | U | | P | 0.05 | P1 | | | P182602 | - | |
| 440-47-3 | Chromium | | 9.4 | mg/Kg | ř. | | P | 0.07 | P1 | | | P182602 | | |
| 140-50-8 | Copper | | 1.7 | mg/Kg | В | | P | 0.16 | P1 | | | P182602 | | |
| 39-92-1 | Lead | | 5.1 | mg/Kg | | | P | 0.19 | P1 . | | | P182602 | | |
| 439-97-6 | Mercury | | 0.01 | mg/Kg | U | | CV | 0.01 | CV1 | | | 081602C | | |
| 40-02-0 | Nickel | | 0.23 | mg/Kg | U | | P | 0.23 | P1 | | | P182602 | | |
| 82-49-2 | Selenium | | 0.68 | mg/Kg | | | P | 0.34 | P1 | | | P182602 | | |
| 140-22-4 | Silver | 14.1 | 0.39 | mg/Kg | .U | .* | P | 0.39 | P1 | | | P182602 | | |
| 40-28-0 | Thallium | | 0.60 | mg/Kg | U | | P | 0.60 | Pl | 7 | | P182602 | ĕ | |
| 140-66-6 | Zinc | | 7.1 | mg/Kg | | | P | 0.06 | PI | | | P182602 | | |
| olor Be | fore: BROWN | | | Clarity | Befo | ore: | | | Texture: | MED | IUM | | | |
| Color Aft | er: YELLOW | | | Clarity | Afte | er: | 0 | | Artifacts: | | | | | |
| Commen | - | | | Clarity | AITE | er: | | | Artifacts: | | | | | |

| Client: | PMK Group | | | | SDO | G No.: P3 | 702 | | Met | hod Type: SW846 | |
|----------|------------------|--------|----------|----------|--------|-----------|--------|-----------|---------------|-------------------|------|
| Samp | ole ID: P3702-09 | | | | | | Client | ID: TP-10 | | | |
| Cont | ract: PMK Group | p | | Lab C | ode: | CHEMED | (| ase No.: | | SAS No.: P3702 | |
| Matr | ix: SOIL | | Date R | eceived: | 8/9/02 | | Level: | LOW | | | |
| % So | lids: 76 . | | | | | , | | * | | | |
| CAS No. | Analyte | Concer | ntration | Units | C | Qual | M | DL | Instrument ID | Analytical Run | * |
| 40-36-0 | Antimony | | 0.30 | mg/Kg | В | | P | 0.30 | P1 | P182602 | |
| 440-38-2 | Arsenic | | 0.64 | mg/Kg | В | | P | 0.34 | P1 | P182602 | |
| 140°41-7 | Beryllium | | 0.78 | mg/Kg | × | E | P | 0.01 | P1 | P182602 | |
| :40-43-9 | Cadmium | | 0.07 | mg/Kg | U . | 42 | P | 0.07 | P1 | P182602 | |
| 140-47-3 | Chromium | | 2.1 | mg/Kg | | | P | 0.09 | P1 | P182602 | |
| 40-50-8 | Copper | | 0.20 | mg/Kg | U | 42 | , P | 0.20 | P1 | P182602 | |
| 39-92-1 | Lead | | 0.86 | mg/Kg | | | P | 0.24 | P1 | P182602 | 9 |
| 139-97-6 | Mercury | | 0.52 | mg/Kg | | ř. | CV | 0.01 | CV1 | 081602C | |
| 40-02-0 | Nickel | | 0.29 | mg/Kg | U | | P | 0.29 | P1 | P182602 | |
| 82-49-2 | Selenium | | 0.43 | mg/Kg | U | | P | 0.43 | Pl | P182602 | |
| 40-22-4 | Silver | 27. | 0.49 | mg/Kg | U | | P | 0.49 | P1 | P182602 | 7 |
| 40-28-0 | Thallium | · . | 0.76 | mg/Kg | U | | P | 0.76 | P1 | P182602 | |
| 40-66-6 | Zinc | | 0.08 | mg/Kg | U | | P | 0.08 | PI | P182602 | n 12 |
| Jolor Be | tore: BROWN | | | Clarity | Befor | re: | - 4 | D. | Texture: ME | DIUM | |
| Comme | | | | Clarity | After | • | 2 | | Artifacts: | | |

| Samp | le ID: P3702-10 | | | | | | Client) | D: TP-10I | | * | - 4 | |
|----------|-----------------|---------|--------|----------|--------|--------|---------|-----------|---------------|-------|-------------------|-------|
| | | | | | | | | | | | | |
| Contr | act: PMK Grou | р | | Lab C | ode: | CHEMED | | ase No.: | | SASI | No.: P3702 | |
| Matri | x: SOIL | | Date R | eceived: | 8/9/02 | | Level: | LOW | | | | |
| % Sol | ids: 79 | | , | 4) | | | | | | | | |
| CAS No. | Analyte | Concent | ration | Units | C | Qual | M | DL | Instrument ID | , E | Analytical Run | |
| 140-36-0 | Antimony | | 0.29 | mg/Kg | U | | P | 0.29 | P1 | | P182602 | |
| 140-38-2 | Arsenic | · 2 | 0.33 | mg/Kg | U | | P | 0.33 | P1 | | P182602 | |
| 140=41-7 | Beryllium | | 0.38 | mg/Kg | - B | E | P | 0.01 | P1 * | *: | P182602 | |
| 40-43-9 | Cadmium | | 0.06 | mg/Kg | U | | P | 0.06 | P1 | | P182602 | |
| +40-47-3 | Chromium | (*) | 1.2 | mg/Kg | В | | P | 0.09 | P1 | 20 | P182602 | 41.75 |
| 140-50-8 | Copper | */ | 0.19 | mg/Kg | U | | P | 0.19 | P1 = | | P182602 | |
| 39-92-1 | Lead . | | 0.37 | mg/Kg | В | | .P | 0.23 | P1 | | P182602 | |
| 139-97-6 | Mercury | - | 0.07 | mg/Kg | | × | CV | 0.01 | CV1 | | 081602C | |
| 40-02-0 | Nickel | * * | 0.28 | mg/Kg | U | | P | 0.28 | P1 | | P182602 | |
| 82-49-2 | Selenium | | 0.41 | mg/Kg | U | | P | 0.41 | P1 | 50 | P182602 | ¥/4 |
| 40-22-4 | Silver | | 0.46 | mg/Kg | U | | P | 0.46 | P1 | | P182602 | |
| 40-28-0 | Thallium | | 0.73 | mg/Kg | U | | P | 0.73 | P1 | | P182602 | |
| 40-66-6 | Zinc | | 0.08 | mg/Kg | U | | P | 0.08 | P1 | | P182602 | |
| Color Be | fore: BROWN | 15 | | Clarity | Befor | re: | | | Texture: ME | EDIUM | | |
| Color Af | ter: YELLOW | , | | Clarity | After | | | | Artifacts: | | | |

SDG No.: P3702

Sample ID: P3702-01

702-01

Client ID: TP-31

8/9/02

Contract: PMK Group

Date Collected:

Date Received:

8/9/02

Matrix:

SOIL

% Solids:

88.00

| ıalyte | Method | Result | Units | · C | Qual | DF | Analytical Date | |
|--------|-----------|---------|-------|-----|------|----|--------------------|--|
| Phenol | EPA 420.1 | < 1.420 | mg/Kg | U | | 1 | 8/20/02 | |
| Canide | 9012 | 0.640 | mg/Kg | | | 1 | 8/17/02 | |

SDG No.: P3702

Sample ID: P3702-02

2-02 Client ID:

TP-33

Contract: PMK Group

Date Collected:

8/9/02 Date Received:

8/9/02

Matrix:

SOIL

% Solids:

89.80

| | | * | 9 | | | * | Analytical | |
|---------|-----------|---------|-------|---|------|------|------------|--|
| alyte | Method | Result | Units | C | Qual | DF ' | Date | |
| Phenol | EPA 420.1 | < 1.392 | mg/Kg | U | | 1 | 8/20/02 | |
| Cranide | 9012 | 0.620 | mg/Kg | | | 1 | 8/17/02 | |

5DG No.: P3702

Sample ID: P3702-03

O2-03 Client ID:

lient ID: TP-34

Contract: PMK Group

Date Collected:

8/9/02 Date Received:

8/9/02

Matrix:

SOIL

% Solids:

84.80

| ⊥_alyte | | Method | Result | Units . (| C Oual | DF | Analytical Date | i- |
|---------|------|-----------|---------|-----------|--------|----|--------------------|----|
| henol | | EPA 420.1 | < 1.474 | mg/Kg U | Quai | | 8/20/02 | |
| : inide | | 9012 | < 0.590 | mg/Kg U | | 1 | 8/17/02 | |
| 100 | | | | | | | | |

Chemtech Consulting Group

GENERAL CHEMISTRY Analyses Data Sheet

SDG No.: P3702

Sample ID: P3702-04

Client ID:

TP-6D

Contract:

PMK Group

Date Collected:

8/9/02

Date Received: 8/9/02

Matrix:

SOIL

% Solids:

74.40

| * • | | | | | | | | Analytical | 4 | |
|---------|-----|-----------|---------|-------|---|------|----|------------|---|---|
| Aualyte | | Method | Result | Units | C | Qual | DF | Date | | |
| Phenol | - 4 | EPA 420.1 | < 1.580 | mg/Kg | U | | 1 | 8/20/02 | | |
| anide | * | 9012 | < 0.670 | mg/Kg | σ | | 1 | 8/17/02 | | - |

SDG No.: P3702

Sample ID: P3702-05

Client ID:

TP-6

Contract:

PMK Group

Date Collected:

8/9/02 Date Received:

8/9/02

Matrix:

SOIL

% Solids:

82.40

| ıalyte | Method | Result | Units | C | Qual | DF | Analytical Date | |
|---------|-----------|---------|-------|---|------|----|--------------------|-----|
| Phenol | EPA 420.1 | < 1.517 | mg/Kg | U | | 1 | 8/20/02 | |
| Cranide | 9012 | < 0.610 | mg/Kg | σ | 9 4 | 1 | 8/17/02 | * , |

hemtech Consulting Group

GENERAL CHEMISTRY Analyses Data Sheet

SDG No.: P3702

Sample ID: P3702-06

Client ID:

TP-4

Contract:

PMK Group

Date Collected:

8/9/02

Date Received: 8/9/02

Matrix:

SOIL

% Solids:

76.20

| alyte | (6) | | Method | Result | Units | С | Qual | DF | Analytical Date | |
|---------|-----|---|-----------|---------|-------|---|------|-----|--------------------|--|
| Phenol | | | EPA 420.1 | < 1.640 | mg/Kg | U | | 1 | 8/20/02 | |
| (anide | | | 9012 | < 0.660 | mg/Kg | σ | | 1 ' | 8/17/02 | |
| | | * | 4 | | 1 | | | | * | |

SDG No.: P3702

Sample ID: P3702-07

Client ID:

TP-4D

Contract:

PMK Group

Date Collected:

8/9/02

Date Received:

8/9/02

Matrix:

SOIL

% Solids:

80.00

| | | | | | | Analytical | |
|-----------|-----------|-------------------|-------------------------|---------------------------|---------------------------|-----------------------------|--|
| Method | Result | Units | C | Qual | DF | Date | |
| EPA 420.1 | < 1.562 | mg/Kg | U | - | 1 | 8/20/02 | |
| 9012 | < 0.630 | mg/Kg | U | | 1 | 8/17/02 | |
| , | EPA 420.1 | EPA 420.1 < 1.562 | EPA 420.1 < 1.562 mg/Kg | EPA 420.1 < 1.562 mg/Kg U | EPA 420.1 < 1.562 mg/Kg U | EPA 420.1 < 1.562 mg/Kg U 1 | Method Result Units C Qual DF Date EPA 420.1 < 1.562 |

SDG No.: P3702

Sample ID: P3702-08

Client ID:

TP-13

Contract:

PMK Group

Date Collected:

8/9/02

Date Received:

8/9/02

Matrix:

SOIL

% Solids:

96.20

| | | _ | | | | | Analytical | |
|---------|-----------|---------|-------|---|------|----|------------|---|
| nalyte | Method | Result | Units | C | Qual | DF | Date | • |
| Phenol | EPA 420.1 | < 1.299 | mg/Kg | U | F | 1 | 8/20/02 | |
| C anide | 9012 | 7.14 | mg/Kg | | | 1 | 8/17/02 | 3 |

SDG No.: P3702

Sample ID: P3702-09

Client ID:

TP-10

Contract:

PMK Group

Date Collected:

8/9/02 Date Received:

8/9/02

Matrix:

SOIL

% Solids:

75.70

| | | | | | | | Analytical | |
|---|-----------|---------|----------|---|------|----|------------|--|
| alyte | Method | Result | Units | C | Qual | DF | Date | |
| Phenol | EPA 420.1 | 3.30 | mg/Kg | | | I | 8/20/02 | |
| ?anide | 9012 | < 0.660 | mg/Kg | U | | 1 | 8/17/02 | |
| , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 3012 | | g / 1.cg | | | _ | 0/2//.02 | |

SDG No.: P3702

Sample ID:

P3702-10

Client ID:

TP-10D

Contract:

PMK Group

Date Collected:

8/9/02 Date Received:

8/9/02

Matrix:

SOIL

% Solids:

79.40

| nalyte | Method | Result | Units | C | Qual | DF | Analytical Date | • | |
|---------|-----------|---------|-------|---|------|----|--------------------|---|--|
| Fnenol | EPA 420.1 | < 1.574 | mg/Kg | U | | 1 | 8/20/02 | | |
| Cvanide | 9012 | < 0.630 | mg/Kg | σ | | 1 | 8/17/02 | | |